

SCORE Search Results Details for Application 10591347 and Search Result 20110506_133209_us-10-591-347-2.rni.

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This page gives you Search Results detail for the Application 10591347 and Search Result 20110506_133209_us-10-591-347-2.rni.

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OM nucleic - nucleic search, using sw model

Run on: May 6, 2011, 13:32:38 ; Search time 1342 Seconds
(without alignments)
29278.208 Million cell updates/sec

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Gapop 10.0 , Gapext 1.0

Searched: 21130652 seqs, 5737639395 residues

Total number of hits satisfying chosen parameters: 42261304

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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3	3407.2	99.5	3412	3	US-09-085-957-32	Sequence 32, Appl
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5	3343.4	97.6	4300	11	US-11-443-428A-73308	Sequence 73308, A
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7	3236.8	94.5	3240	2	US-08-162-081B-34	Sequence 34, Appl
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ALIGNMENTS

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; Sequence 32, Application US/08162081B
; Patent No. 5824492
; GENERAL INFORMATION:
;   APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
;   APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
;   APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
;   APPLICANT: Stefano; Gout, Ivan Tarasovitch
;   TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
;   TITLE OF INVENTION: THEIR PREPARATION AND USE
;   NUMBER OF SEQUENCES: 50
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE: Felfe & Lynch
;   STREET: 805 Third Avenue
;   CITY: New York
;   STATE: New York
;   COUNTRY: USA
;   ZIP: 10022
; COMPUTER READABLE FORM:
;   MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
;   COMPUTER: IBM PS/2
;   OPERATING SYSTEM: PC-DOS
;   SOFTWARE: Wordperfect
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER: US/08/162,081B
;   FILING DATE: February 7, 1994
;   CLASSIFICATION: 435
;   PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: PCT/GB93/00761
;   FILING DATE: 13 April 1993
;   ATTORNEY/AGENT INFORMATION:
;   NAME: Pasqualini, Patricia A.
;   REGISTRATION NUMBER: 34,894
;   REFERENCE/DOCKET NUMBER: LUD 5256
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE: (212) 688-9200
;   TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 32:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH: 3412 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: single or double

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;      FEATURE:
;      NAME/KEY:   CDS
;      LOCATION:   1..3204
;      OTHER INFORMATION: /standard_name= "CDS"
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; Sequence 32, Application US/08780872

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; Patent No. 5846824
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,872
; FILING DATE: 09-JAN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3412 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single or double
; TOPOLOGY: linear
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; NAME/KEY: CDS
; LOCATION: 1..3204
; OTHER INFORMATION: /standard_name= "CDS"
US-08-780-872-32
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Best Local Similarity 99.9%;
Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 13 ATGCTCCAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC 72
Db 1 ATGCTCCAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC 60

Qy 73 CTAGTGGAAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT 132
Db 61 CTAGTGGAAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT 120

Qy 133 ACATTAGTAACATATAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTCCTCATCAA 192
Db 121 ACATTAGTAACATATAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTCCTCATCAA 180

Qy 193 CTCTTCAAGATGAATCTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGGAA 252
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Qy 253 GAATTTTTTATGATAAACAAGACGACTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA 312
Db 241 GAATTTTTTATGATAAACAAGACGACTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA 300

Qy 313 GTAATGGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT 372
Db 301 GTAATGGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT 360

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Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
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Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACAGAGCTGCCAAAGCAC	552
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Qy	553	ATATATAATAAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGGTAATAGTTTCTCCA	600
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Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCATATATGAATGGA	960
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Db	1381	GTTACTGGATCAAAATCCAAATAAAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
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Db	1501	TCCGAGAAGCAGGATTAGCTATTCCCACGAGGACTGAGTAACAGACTAGCTAGAGAC	1560
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US-09-085-957-32

; Sequence 32, Application US/09085957

; Patent No. 62/4327

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu

; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter

; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stasov; Cout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Felfe & Lynch

; STREET: 805 Third Avenue

; CITY: New York

; STATE: New York

; COUNTRY: USA

; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/085,957

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/780,872

; FILING DATE: 09-JAN-1997

; APPLICATION NUMBER: 08/162,081

; FILING DATE: February 7, 1994

; APPLICATION NUMBER: PCT/GB93/00761

; FILING DATE: 13 April 1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Pasqualini, Patricia A.

; REGISTRATION NUMBER: 34,894

; REFERENCE/DOCKET NUMBER: LUD 5256

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 688-9200

; TELEFAX: (212) 838-3884

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; INFORMATION FOR SEQ ID NO: 32:
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;   STRANDEDNESS: single or double
;   TOPOLOGY: linear
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;   OTHER INFORMATION: /standard_name= "CDS"
US-09-085-957-32
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Best Local Similarity		99.9%;				
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						Gaps 0;
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Db	241	GAATTTTTTGATGAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	300			
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Db	541	ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAAATAGTTTCTCCA	600			
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Db	901	TGTTTTACAATGCCATCTTATTTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	960			
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Db	961	CATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
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Db	1381	GTTACTGGATCAAAATCCAAATAAAGAAATCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
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Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
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Qy	1873	AAATATTTAACAGATGACAAATTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
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Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCA	AAATTTATTCGTATTATG	2472
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Qy	2473	GAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTAC	CTTATGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTAC	CTTATGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATTC	CACATATTATGCAAAAT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATTC	CACATATTATGCAAAAT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCC	ACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCC	ACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGAGAAATATATGATGCAGCCATTG	ACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGAGAAATATATGATGCAGCCATTG	ACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGG	AGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGG	AGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATT	TTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATT	TTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATT	TGTTTGTACACAGGATTC	2892
Db	2821	AAGAAGAAAAAATTGGTTATAAACGAGAACGTGTGCCATT	TGTTTGTACACAGGATTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACA	AAGAGAATTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACA	AAGAGAATTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTTACAAGGCTTATCTAGCTATTGCAGAC	AGTCCCAATCTCTTCATAAT	3012
Db	2941	CAGGAGATGTGTTTACAAGGCTTATCTAGCTATTGCAGAC	AGTCCCAATCTCTTCATAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACA	ATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACA	ATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTGCAAAAGCCCTAGCCTTAGATAAAAAGTACGCAAG	AGGCTTTGGAGATTTTCATG	3132
Db	3061	TACATTGCAAAAGCCCTAGCCTTAGATAAAAAGTACGCAAG	AGGCTTTGGAGATTTTCATG	3120
Qy	3133	AAACAATGAATGATGCACATCATGGTGGCTGGACAACAAA	AATGGATTGGATCTCCAC	3192
Db	3121	AAACAATGAATGATGCACATCATGGTGGCTGGACAACAAA	AATGGATTGGATCTCCAC	3180
Qy	3193	ACAATTAACAGCATGCAATTGAACTGAAAGATAACTGAGAA	AAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCAATTGAACTGAAAGATAACTGAGAA	AAATGAAAGCTCACTCTGGA	3240
Qy	3253	TTCCACACTGCACGTGTTAATAACTCTCAGCAGGCAAGAC	CGATTGCATAGGAATTCAC	3312
Db	3241	CACTACACTGCACGTGTTAATAACTCTCAGCAGGCAAGAC	CGATTGCATAGGAATTCAC	3300
Qy	3313	AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAAT	AAAAATACTATATAATTTAAA	3372
Db	3301	AATCCATGAACAGCATTAGATTTACAGCAAGAACAGAAAT	AAAAATACTATATAATTTAAA	3360
Qy	3373	TAATGTAAACCGCAACAGGGTTTGATAGCACTTAAACTAG	TTCACTATTTCAAAA	3424
Db	3361	TAATGTAAACCGCAACAGGGTTTGATAGCACTTAAACTAG	TTCACTATTTCAAAA	3412

RESULT 4

US-09-325-095-32

; Sequence 32, Application US/09325095

; Patent No. 7422849

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu

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; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stefano; Gout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Felfe & Lynch

; STREET: 805 Third Avenue

; CITY: New York

; STATE: New York

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; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/325,095

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/085,957

; FILING DATE:

; APPLICATION NUMBER: 08/780,872

; FILING DATE: 09-JAN-1997

; APPLICATION NUMBER: 08/162,081

; FILING DATE: February 7, 1994

; APPLICATION NUMBER: PCT/GB93/00761

; FILING DATE: 13 April 1993

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; INFORMATION FOR SEQ ID NO: 32:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3412 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single or double

; TOPOLOGY: linear

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 1..3204

; OTHER INFORMATION: /standard_name= "CDS"

US-09-325-095-32

Query Match 99.5%; Score 3407.2; DB 8; Length 3412;

Best Local Similarity 99.9%;

Matches 3409; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy	13	ATGCTCCAAGACCATCATCAGGTGAACCTGTGGGCAATCCACTTGATGCCCCCAAGAATC	72
Db	1	ATGCTCCAAGACCATCATCAGGTGAACCTGTGGGCAATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAAATGCCTTCGGTAGGCT	132
Db	61	CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAAATGCCTTCGGTAGGCT	120
Qy	133	ACATTAGTAGTAATAAAGCATGAACATATTTAAGAAGCAAGAAAAATACCCCTTCATCAA	192
Db	121	ACATTAGTAGTAATAAAGCATGAACATATTTAAGAAGCAAGAAAAATACCCCTTCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGTATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	300

Qy	313	GTAATTGAACCACTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	372
Db	301	GTAATTGAACCACTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTGGTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTGGTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAAGCTGTGGATCTTAGGGATCTTAATCACCCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAAGCTGTGGATCTTAGGGATCTTAATCACCCTCAT	480
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAAATAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAAATAAAA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTGGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCCAGACATTGACAAGATTTATGTTGCAACAGGTATC	1092
Db	1021	GCAACCTACGTGAATCTAAATATTCCAGACATTGACAAGATTTATGTTGCAACAGGTATC	1080
Qy	1093	TACCATGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGTGGAATGAATGGCTGAATTATGATATATACATTCTCGTATCTTCCTCGTGTGCT	1212
Db	1141	CCCAGTGGAATGAATGGCTGAATTATGATATATACATTCTCGTATCTTCCTCGTGTGCT	1200
Qy	1213	CGACTTTGCTCTTCCATTGTCTCTGTTAAAGGCCGAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCTCTTCCATTGTCTCTGTTAAAGGCCGAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTGGT	1380
Qy	1393	GTTACTGGATCAAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500

Qy	1513	TCCCGGAAGCAGGATTAGCTATTCCACAGCAGGACTAGTAACAGACTAGCTAGAGAC	1578
Db	1501	TCCCGAGAGCAGGATTAGCTATTCCACAGCAGGACTAGTAACAGACTAGCTAGAGAC	1566
Qy	1573	AATGAATTAAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCACAGAGATCCTCTC	1633
Db	1561	AATGAATTAAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCACAGAGATCCTCTC	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAAGATTTCATGAGAGTCACAGACACTATTGTGTAAC	1693
Db	1621	TCTGAAATCACTGAGCAGGAGAAAAGATTTCATGAGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCGCAAAATCTACCCAAATGCTTCTGTCTGTTAAATGGAATTCAGAGATGAAGTA	1753
Db	1681	ATCCCGCAAAATCTACCCAAATGCTTCTGTCTGTTAAATGGAATTCAGAGATGAAGTA	1740
Qy	1753	GCCCGAGATGATTGCTTGGTAAAGAGATTGGCTCCAATCAACCTGAAACGGCTATGGAA	1813
Db	1741	GCCCGAGATGATTGCTTGGTAAAGAGATTGGCTCCAATCAACCTGAAACGGCTATGGAA	1800
Qy	1813	CTTCTGGAGTGAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTGGAA	1873
Db	1801	CTTCTGGAGTGAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTGGAA	1860
Qy	1873	AAATATTTAAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1933
Db	1861	AAATATTTAAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGTCTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1993
Db	1921	TATGAACAATATTTGGATAACTTGTCTGTGAGATTTTACTGAGAAAGCATTGACTAAT	1980
Qy	1993	CAAGGATTGGGCACATTTTCTTTTGGCAATTTAAATCTGAGATGCACAAATAAACAGTT	2053
Db	1981	CAAGGATTGGGCACATTTTCTTTTGGCAATTTAAATCTGAGATGCACAAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCTGTCTTTTGGAGTCCATTTGTCGTGCATGTGGGATGTATTGGAAG	2113
Db	2041	AGCCAGAGGTTTGGCTGTCTTTTGGAGTCCATTTGTCGTGCATGTGGGATGTATTGGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAAGCTATTAACTTAACGTACATTCCTAAA	2173
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAAGCTATTAACTTAACGTACATTCCTAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAACACAAAAAGGTACAGATGAAGTTTAACTTGAGCAAAATGAGG	2233
Db	2161	CAGGAGAGGAAGGATGAACACAAAAAGGTACAGATGAAGTTTAACTTGAGCAAAATGAGG	2220
Qy	2233	CAGCAGAGTTTTCATGGAATGCCCTACAGGGCTGTGCTCTCCCTCAAAACCTGCTCATCAA	2293
Db	2221	CGACCAGATTTTCATGGAATGCCCTACAGGGCTGTGCTCTCCCTCAAAACCTGCTCATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2353
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTTGGGAGAACCAGACATCATGTGAGAGTTACTGTTTCAGAACAAATGAGATCATC	2413
Db	2341	TTGAATTTGGGAGAACCAGACATCATGTGAGAGTTACTGTTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTACGCGCAAGATATGCTAACACTTCAAATTTATCGTATTATG	2473
Db	2401	TTTAAAAATGGGGATGATTACGCGCAAGATATGCTAACACTTCAAATTTATCGTATTATG	2460
Qy	2473	GAATAATCTGGCAAAATCAAGGCTTGTGATCTTCGAATGTTACCTTATGGTGTCTGTGCA	2533
Db	2461	GAATAATCTGGCAAAATCAAGGCTTGTGATCTTCGAATGTTACCTTATGGTGTCTGTGCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGGCAAAATCTCACACTATTATGCAAAATT	2593
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGGCAAAATCTCACACTATTATGCAAAATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAGAGTGCAGCTGCAGTTCAACAGCCACACACTACATCAGTGG	2653
Db	2581	CAGTGCAAAGGCGGCTTGAAGAGTGCAGCTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAGACAGAACAAAGAGAGAAATATATGATGCAGCAATTGACCTGTTTACACGTTCA	2713
Db	2641	CTCAAGACAGAACAAAGAGAGAAATATATGATGCAGCAATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACGTGTGAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAAATAGTAAC	2773

Db	2701		TGTGCTGGATAC		2760
Qy	2773		ATCATGGTGAAGACGATGGACAAC		2832
Db	2761		ATCATGGTGAAGACGATGGACAAC		2820
Qy	2833		AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCAATTTGTTT		2892
Db	2821		AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCAATTTGTTT		2880
Qy	2893		TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGACAAGAGAATTTGAGAGGTTT		2952
Db	2881		TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGACAAGAGAATTTGAGAGGTTT		2940
Qy	2953		CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT		3012
Db	2941		CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT		3000
Qy	3013		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA		3072
Db	3001		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA		3060
Qy	3073		TACATTGCAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG		3132
Db	3061		TACATTGCAAGACCCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTCATG		3120
Qy	3133		AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC		3192
Db	3121		AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC		3180
Qy	3193		ACAATTAACAGCATGCATTGAAGTGAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA		3252
Db	3181		ACAATTAACAGCATGCATTGAAGTGAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA		3240
Qy	3253		TTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAGACCGATTGTCATAGGAATTGCAC		3312
Db	3241		CACTACACTGCACTGTTAATAACTCTCAGCAGGCAAGACCGATTGTCATAGGAATTGCAC		3300
Qy	3313		AATCCATGAACAGCATTAGATTACAGCAAGAACAGAAATAAAATCTATATAAATTTAAA		3372
Db	3301		AATCCATGAACAGCATTAGATTACAGCAAGAACAGAAATAAAATCTATATAAATTTAAA		3360
Qy	3373		TAATGTAACGCAACAGGGTTTGATAGCACTTAAACTAGTTTCATTTCAAAA		3424
Db	3361		TAATGTAACGCAACAGGGTTTGATAGCACTTAAACTAGTTTCATTTCAAAA		3412

RESULT 5

US-11-443-428A-73308

; Sequence 73308, Application US/11443428A

; Patent No. 7745391

GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanqing

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; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 73308

; LENGTH: 4300

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (15)..(15)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (23)..(23)

; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (27)..(27)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (30)..(30)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (59)..(59)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (64)..(64)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (86)..(86)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t

US-11-443-428A-73308

Query Match 97.6%; Score 3343.4; DB 11; Length 4300;
Best Local Similarity 98.9%;
Matches 3387; Conservative 0; Mismatches 37; Indels 2; Gaps 2;

Qy	1	AGGATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAACCTGTGGGGCATCCACTTGATG	60
Db	172	AGAATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAACCTGTGGGGCATCCACTTGATG	231
Qy	61	CCCCAAGAATCCTAGTGAATGTTTACTACCAAAATGGAATGATAGTGACTTTGAAATGC	120
Db	232	CCCCAAGAATCCTAGTGAATGTTTACTACCAAAATGGAATGATAGTGACTTTGAAATGC	291
Qy	121	CTCCGTGAGGCTACATTAGTAACATAAAAGCATGAACATATTTAAAGAAGCAAGAAAAATAC	180
Db	292	CTCCGTGAGGCTACATTAATAACCATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATAC	351
Qy	181	CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAAGTGTTACCCAAGAA	240
Db	352	CCNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAAGTGTTACCCAAGAA	411
Qy	241	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTTGTGATCTTCGGCTTTTTCAA	300
Db	412	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTTGTGACCTTCGGCTTTTTCAA	471
Qy	301	CCATTTTTTAAAGTAATTGAACCAAGTAGGCAACCGTGAAAGAAAGATCCTCAATCGAGAA	360
Db	472	CCCTTTTTTAAAGTAATTGAACCAAGTAGGCAACCGTGAAAGAAAGATCCTCAATCGAGAA	531
Qy	361	ATTGGTTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA	420
Db	532	ATTGGTTTTTGCTATCGGCATGCCAGTGTGGAATTTGATATGGTTAAAGATCAGAGTA	591
Qy	421	CAGGACTTCGGAAGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTTAGGGATCTT	480
Db	592	CAGGACTTCGGAAGAAATATTCTGAACGTTTGTAAAGAAGCTGTGGATCTTTAGGGACCTC	651
Qy	481	AATTCACTTCATAGTAGAGCAATGTATGTCTATCCGCCACATGAGAATCTTCACCAGAG	540
Db	652	AATTCACTTCATAGTAGAGCAATGTATGTCTATCCTCCAAATGAGAATCTTCACCAGAA	711
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTA	600
Db	712	TTGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAAATAATAGTGGTGATCTGGGTA	771
Qy	601	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAAATCAACCATGACTGTGTG	660
Db	772	ATAGTTTCTCCAAATAATGACAAGCAGAAGTATACTCTGAAAAATCAACCATGACTGTGTA	831
Qy	661	CCAGAACAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720

SCORE Search Results Details for Application 10591347 and Search Result 20110506_133209_us-10-591-347-2.mi				
Db	832	CCAGAACAAAGTAATTTGCTGAAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891	
Qy	721	GAACAATTAACACTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAAGTGTGTGGA	780	
Db	892	GAACAACTAAAACCTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAAAGTGTGTGGA	951	
Qy	781	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAAGAAGCTGT	840	
Db	952	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAAGAAGCTGT	1011	
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAA	900	
Db	1012	ATAATGCTTGGGAGGATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1071	
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCA	960	
Db	1072	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCCAGACGCATTTCACAGCTACACCA	1131	
Qy	961	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATA	1020	
Db	1132	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCATCAGAATA	1191	
Qy	1021	AAAAATCTTTTGGCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTATAGTT	1080	
Db	1192	AAAAATCTTTTGGCAACCTACGTGAATGTAATATTCGAGACATTGATAAGATCTATAGTT	1251	
Qy	1081	CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAAATGTAACACTCAAAGAGTA	1140	
Db	1252	CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAAATGTAACACTCAAAGAGTA	1311	
Qy	1141	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTT	1200	
Db	1312	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTT	1371	
Qy	1201	CCTCGTGCTGCTCGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1260	
Db	1372	CCTCGTGCTGCTCGACTTTGCCTTTCCATTGTCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1431	
Qy	1261	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1320	
Db	1432	GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTTTGATTACACAGACACTCTA	1491	
Qy	1321	GTATCTGGA AAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTG	1380	
Db	1492	GTATCTGGA AAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTG	1551	
Qy	1381	AACCCATTTGGTGTTACTGGATCAAATCCAAATAAAGAAATCCATGCTTAGAGTTGGAG	1440	
Db	1552	AACCCATTTGGTGTTACTGGATCAAATCCAAATAAAGAAATCCATGCTTAGAGTTGGAG	1611	
Qy	1441	TTTGACTGGTTACGACAGTGTGGTAAAGTTCAGATATGTCAGTGATTGAAGAGCATGCC	1500	
Db	1612	TTTGACTGGTTACGACAGTGTGGTAAAGTTCAGATATGTCAGTGATTGAAGAGCATGCC	1671	
Qy	1501	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCACAGCAGGACTGAGTAACAGA	1560	
Db	1672	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCACAGCAGGACTGAGTAACAGA	1731	
Qy	1561	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620	
Db	1732	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1791	
Qy	1621	CGAGATCCTCTCTCTGAAATCCTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACAC	1680	
Db	1792	CGAGATCCTCTCTCTGAAATCCTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACAC	1851	
Qy	1681	TATTGTGTAACATFCCCCGAAATTTACCACAAATGCTTCTGTCTGTTAAATGGAATTCT	1740	
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Qy	1741	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAAGATTGGCCTCCAATCAAACCTGAA	1800	
Db	1912	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAAGATTGGCCTCCAATCAAACCTGAA	1971	
Qy	1801	CAGGCTATGGAACCTTCTGGACTGTAATTAACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1860	
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Qy	2092	CAGGTCTCTAAAAATATGAACAATATTTGGATAACTTGCTTTGTGAGATTTTTTACTGAAGAAA	2151
Qy	1981	CAGTTCGTAATCAAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTCGAGATGCAC	2040
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Qy	2212	AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCTCTATTGTCGTGCATGTGGG	2271
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Qy	2272	ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAAGCTCATTAACTTAAC	2331
Qy	2161	GACATTCTCAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTT	2220
Db	2332		
Qy	2332	GACATTCTCAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTAGTT	2391
Qy	2221	GAGCAAAATGAGGCGACAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAAC	2280
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Qy	2392	GAGCAAAATGAGGCGACAGATTTCATGGATGCTCTACAGGGCTTGCTGTCTCCTCTAAAC	2451
Qy	2281	CCTGCTCATCAACTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCTTCTGCAAAA	2340
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Qy	2632	ATTCGTATTATGAAAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTAT	2691
Qy	2521	GGTTGCTGTCAATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCGAAATCTCACACT	2580
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Qy	2581	ATTATGCAAAATTCAGTGCAAAAGCGCGCTTGAAGGTGCACCTGCAGTTTCAACAGCCACACA	2640
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Db	2872		
Qy	2872	TTTACACGTTTCAATGTCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTTGGAGATCGT	2931
Qy	2761	CACAAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTTCATATAGATTTTGGACAC	2820
Db	2932		
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Qy	2821	TTTTTGGATCACAAGAAGAAAAAATTTGGTTATAAACGAGAACGTTGCCATTGTTTTTG	2880
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Qy	2881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGAAATGCACAAAGACAAGAGAA	2940
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Qy	2941	TTTGAGAGGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3000
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Qy	3001	CTCTTCATAAACTCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3060
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Qy	3172	CTCTTCATAAACTCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3231
Qy	3061	GATGACATTGCATACATTTCGAAAGACCTTAGCCTTAGATAAACTGAGCAAGAGGCTTTG	3120
Db	3232		
Qy	3232	GATGACATTGCATACATTTCGAAAGACCTTAGCCTTAGATAAACTGAGCAAGAGGCTTTG	3291

Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAAACAAAAATGGAT	3180
Db	3292	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAAACAAAAATGGAT	3351
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Qy	3300	ATAGGAATTGCACAATCCATGAACAGCATTAG-ATTACAGCAAGAACAGAAATAAAATA	3358
Db	3472	ATAGGAATTGCACAATCCATGAACAGCATTAGAAATTACAGCAAGAACAGAAATAAAATA	3531
Qy	3359	CTATATAATTTAAATAATGTAAACGCAACAGGGTTTGATAGCACTTAAACTAGTTCATT	3418
Db	3532	CTATATAATTTAAATAATGTAAACGCAACAGGGTTTGATAGCACTTAAACTAGTTCATT	3591
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RESULT 6
 US-11-443-428A-73313
 ; Sequence 73313, Application US/11443428A
 ; Patent No. 7745391
 ; GENERAL INFORMATION:
 ; APPLICANT: Mintz, Liat
 ; APPLICANT: Xie, Hanging
 ; APPLICANT: Dahari, Dvir
 ; APPLICANT: Levanon, Erez
 ; APPLICANT: Freilich, Shiri
 ; APPLICANT: Beck, Nili
 ; APPLICANT: Zhu, Wei-Yong
 ; APPLICANT: Wasserman, Ailon
 ; APPLICANT: Hermesh, Chen
 ; APPLICANT: Azar, Idit
 ; APPLICANT: Bernstein, Jeanne
 ; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES
 ; FILE REFERENCE: 02/23929
 ; CURRENT APPLICATION NUMBER: US/11/443,428A
 ; CURRENT FILING DATE: 2006-05-31
 ; NUMBER OF SEQ ID NOS: 1034312
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 73313
 ; LENGTH: 4354
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (15)..(15)
 ; OTHER INFORMATION: n is a, c, g, or t
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 ; NAME/KEY: misc_feature
 ; LOCATION: (23)..(23)
 ; OTHER INFORMATION: n is a, c, g, or t
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 ; OTHER INFORMATION: n is a, c, g, or t
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 ; NAME/KEY: misc_feature
 ; LOCATION: (30)..(30)
 ; OTHER INFORMATION: n is a, c, g, or t
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 ; OTHER INFORMATION: n is a, c, g, or t
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 ; NAME/KEY: misc_feature
 ; LOCATION: (86)..(86)
 ; OTHER INFORMATION: n is a, c, g, or t
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 ; NAME/KEY: misc feature

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; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73313

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						Gaps	2;
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Db	172	AGAATCAGAACAAATGCCTCCAAGACCATCATCAGGTGAACCTGTGGGGCATCCACTTGTATG	231				
Qy	61	CCCCAAGAATCCTAGTGGAAATGTTTACTACCAAAATGGAATGATAGTGACTTTTGAATGC	120				
Db	232	CCCCAAGAATCCTAGTGAATGTTTACTACCAAAATGGAATGATAGTGACTTTTGAATGC	291				
Qy	121	CTCCGTGAGGCTACATTAGTAACATATAAGCATGAACATTTTAAAGAAGCAAGAAAATAC	180				
Db	292	CTCCGTGAGGCTACATTAAATACCATAAAGCATGAACATTTTAAAGAAGCAAGAAAATAC	351				
Qy	181	CCTCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAAGTGTATCCCAAGAA	240				
Db	352	CNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAAGTGTATCCCAAGAA	411				
Qy	241	GCAGAAAGGGAAGAATTTTTGTATGAAACAGACGACTTTGTGATCTTCGGCTTTTTTCAA	300				
Db	412	GCAGAAAGGGAAGAATTTTTGTATGAAACAGACGACTTTGTGACCTTCGGCTTTTTTCAA	471				
Qy	301	CCATTTTTTAAAGTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	360				
Db	472	CCCTTTTTTAAAGTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531				
Qy	361	ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTA	420				
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Qy	421	CAGGACTTCGGAAGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTT	480				
Db	592	CAGGACTTCGGAAGAAATATTCTGAACGTTTGTAAAGAAGCTGTGGATCTTAGGGACCTC	651				
Qy	481	AATTCACTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAG	540				
Db	652	AATTCACTCATAGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAA	711				
Qy	541	CTGCCAACGACATATATAATAAATTGGATAGGCCCAAAATATAGTGGTGATTGGGTA	600				
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Qy	601	ATAGTTTCTCCAATAATGACAAGCAGAAGTATACTCTGAAAAATCAACCATGACTGTGTG	660				
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Qy	661	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720				
Db	832	CCAGAACAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891				
Qy	721	GAACAATTTAAACTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAGTGTGTGGA	780				
Db	892	GAACAACATAAACTCTGTGTTTTAGAATATCAGGGCAAGTATATTTTAAAGTGTGTGGA	951				
Qy	781	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATATAGTATATAAAGAGCTGT	840				
Db	952	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAGTATATAGTATATAAAGAGCTGT	1011				
Qy	841	ATAATGCTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAA	900				
Db	1012	ATAATGCTTGGGAGGATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1071				
Qy	901	CTGCCAATGGAGCTGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCA	960				
Db	1072	CTGCCAATGGAGCTGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCA	1131				
Qy	961	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTTATAAATAGAGCACTCAGAATA	1020				
Db	1132	TATATGAATGGAGAAACATCTACAAAATCCCTTTGGGTTTATAAATAGTGCACCTCAGAATA	1191				
Qy	1021	AAAAATCTTTGTGCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTATGTT	1080				

Db	1192		AAAATCTCTTTGTGCAACCTACGTGAATGTAATATTCGAGACATGTGATAAGATCTATGTT	1251
Qy	1081		CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAAATGTGAACACTCAAAGAGTA	1140
Db	1252		CGAACAGGTATCTACCATGGAGGAGAACCCCTTATGTGACAAATGTGAACACTCAAAGAGTA	1311
Qy	1141		CCTTGTTCCAATCCCAAGGTGGAATGAATGGCTGAATATGATATATACATTCCTGATCTT	1200
Db	1312		CCTTGTTCCAATCCCAAGGTGGAATGAATGGCTGAATATGATATATACATTCCTGATCTT	1371
Qy	1201		CCTCGTGTGCTCGACTTTGCCTTTCCATTTCCTCTGTTAAAGGCCGAAAAGGGTGCTAAA	1260
Db	1372		CCTCGTGTGCTCGACTTTGCCTTTCCATTTCCTCTGTTAAAGGCCGAAAAGGGTGCTAAA	1431
Qy	1261		GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTA	1320
Db	1432		GAGGAACACTGTCCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTA	1491
Qy	1321		GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1380
Db	1492		GTATCTGGAAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTG	1551
Qy	1381		AACCTATTGGTGTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAG	1440
Db	1552		AACCTATTGGTGTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTAGAGTTGGAG	1611
Qy	1441		TTTGACTGGTTCAGCAGTGTGGTAAAGTTCACAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1612		TTTGACTGGTTCAGCAGTGTGGTAAAGTTCACAGATATGTCAGTGATTGAAGAGCATGCC	1671
Qy	1501		AATTGGTCTGTATCCCCGAGAAGCAGGATTTAGCTATTTCCCACGCAGGACTGAGTAACAGA	1560
Db	1672		AATTGGTCTGTATCCCCGAGAAGCAGGATTTAGCTATTTCCCACGCAGGACTGAGTAACAGA	1731
Qy	1561		CTAGCTAGAGCAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1620
Db	1732		CTAGCTAGAGCAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1791
Qy	1621		CGAGATCCTCTCTCGAAATCACTGAGCAGGAGAGAAATTTCTATGGAGTCACAGACAC	1680
Db	1792		CGAGATCCTCTCTCGAAATCACTGAGCAGGAGAGAAATTTCTATGGAGTCACAGACAC	1851
Qy	1681		TATTGTGTAACATATCCCCGAAATTCACCCAAATTGCTTCTGTCTGTTAAATGGAATCT	1740
Db	1852		TATTGTGTAACATATCCCCGAAATTCACCCAAATTGCTTCTGTCTGTTAAATGGAATCT	1911
Qy	1741		AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCCTCAATCAAACCTGAA	1800
Db	1912		AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCCTCAATCAAACCTGAA	1971
Qy	1801		CAGGCTATGGAACCTTCGGAAGTGAATACCCAGATCCTATGGTTCGAGGTTTTCGCTGT	1860
Db	1972		CAGGCTATGGAACCTTCGGAAGTGAATACCCAGATCCTATGGTTCGAGGTTTTCGCTGT	2031
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Db	2032		CGGTGCTTGAAAAATATTTAACAGATGACAACTTTCTCAGTATTTAATTCAGCTAGTA	2091
Qy	1921		CAGGTCTCTAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAA	1980
Db	2092		CAGGTCTCTAAAATATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAA	2151
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Db	2152		GCATTGACTAATCAAAGGATTGGGCACCTTTTCTTTTGGCAATTTAAATCTGAGATGCAC	2211
Qy	2041		AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCTGCGATGCGG	2100
Db	2212		AATAAAACAGTTAGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCTGCGATGCGG	2271
Qy	2101		ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAAGCTCATTAACTTAAC	2160
Db	2272		ATGTATTTGAAGCACCTGAATAGGCAAGTCGAGGCAATGAAAAAGCTCATTAACTTAAC	2331
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Db	2332		GACATTCTCAACAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTATGTT	2391
Qy	2221		GAGCAAAATGAGGCACAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAAC	2280

Ds	1392	GAGCAATGAGGCGACCAGATTTCATGGATGCTCTACAGGGCTTTCTGCTCTCTCTAAAC	2451
Qy	1281	CCTGCTCATCACTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGCTCTTCGCAAAA	2340
Ds	1452	CCTGCTCATCACTAGGAAACCTCAGGCTTGAAGAGTGTGCAATTATGCTCTTCGCAAAA	2511
Qy	1341	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAAC	2400
Ds	1512	AGGCCACTGTGGTTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAAC	2571
Qy	1401	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACCTTCAAATT	2460
Ds	1572	AATGAGATCATCTTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACCTTCAAATT	2631
Qy	1461	ATTCGTATTATGAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCAATGTTACCTTAT	2520
Ds	1632	ATTCGTATTATGAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCAATGTTACCTTAT	2691
Qy	1521	GGTGTCTGCAATCGGTGACTGTGTGGGACTTTAGGTGGTGCGAAATCTTCACACT	2580
Ds	1692	GGTGTCTGCAATCGGTGACTGTGTGGGACTTTAGGTGGTGCGAAATCTTCACACT	2751
Qy	1581	ATTATGCAAAATTCAGTGCAAAAGCGGCTTGAAGGTGCACCTGCAGTTCAACAGCCACACA	2640
Ds	1752	ATTATGCAAAATTCAGTGCAAAAGCGGCTTGAAGGTGCACCTGCAGTTCAACAGCCACACA	2811
Qy	1641	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2700
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Ds	1932	CACAAATAGTAACATCATGTGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2991
Qy	1821	TTTTTGGATCACAAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	2880
Ds	1992	TTTTTGGATCACAAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTTG	3051
Qy	1881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGATGCACAAGACAAGAGAA	2940
Ds	3052	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGATGCACAAGACAAGAGAA	3111
Qy	1941	TTTGAGAGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3000
Ds	3112	TTTGAGAGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3173
Qy	3001	CTCTTCATAAACTCTTTCTCAATGATGCTTGCTCTCGGAATGCCAGAACTACAATCTTTT	3060
Ds	3172	CTCTTCATAAACTCTTTCTCAATGATGCTTGCTCTCGGAATGCCAGAACTACAATCTTTT	3231
Qy	3061	GATGACATTGCATACATTTCGAAAGACCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3120
Ds	3232	GATGACATTGCATACATTTCGAAAGACCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTG	3291
Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180
Ds	3292	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3351
Qy	3181	TGGATCTTCCACACAATTAACAGCATGCATTGAACTG-AAAGATAACTGAGAAAAATGAA	3239
Ds	3352	TGGATCTTCCACACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAA	3411
Qy	3240	AGCTCACTCTGGATTCCACACTGCACGTGTTAATAACTCTCAGCAGGCAAGACCGATTGC	3299
Ds	3412	AGCTCACTCTGGATTCCACACTGCACGTGTTAATAACTCTCAGCAGGCAAGACCGATTGC	3471
Qy	3300	ATAGGAATTGCACAATCCATGAACAGCAATTAG-ATTACAGCAAGAACAGAAAAATAAATA	3358
Ds	3472	ATAGGAATTGCACAATCCATGAACAGCAATTAGAAATTATACGCAAGAACAGAAAAATAAATA	3531
Qy	3359	CTATATAATTTAAATAATGTAAACGCAACAGGGTTTGATAGCACTTAACTAGTTCATT	3418
Ds	3532	CTATATAATTTAAATAATGTAAACGCAACAGGGTTTGATAGCACTTAACTAGTTCATT	3591
Qy	3419	TCAAAA 3424	
Ds	3592	TCAAAA 3597	

RESULT 7
 US-08-162-081B-34
 ; Sequence 34, Application US/08162081B
 ; Patent No. 5824492
 ; GENERAL INFORMATION:
 ; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felfe & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/162,081B
 ; FILING DATE: February 7, 1994
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/GB93/00761
 ; FILING DATE: 13 April 1993
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Pasqualini, Patricia A.
 ; REGISTRATION NUMBER: 34,894
 ; REFERENCE/DOCKET NUMBER: LUD 5256
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (212) 688-9200
 ; TELEFAX: (212) 838-3884
 ; INFORMATION FOR SEQ ID NO: 34:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 3240 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 US-08-162-081B-34

Query Match		94.5%;	Score 3236.8;	DB 2;	Length 3240;	
Best Local Similarity		99.9%;				
Matches 3238;		Conservative	0;	Mismatches	2;	Indels 0;
				Gaps	0;	
Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAAATC	72			
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAAATC	60			
Qy	73	CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAAAGCCTCCGTAGGCT	132			
Db	61	CTAGTGGAAATGTTTACTACCAATGGAATGATAGTGACTTTAGAAAGCCTCCGTAGGCT	120			
Qy	133	ACATTAGTAACATATAAAGCATGAACATATTTAAAGAAGCAAGAAAAACCCCTCCATCAA	192			
Db	121	ACATTAGTAACATATAAAGCATGAACATATTTAAAGAAGCAAGAAAAACCCCTCCATCAA	180			
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252			
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240			
Qy	253	GAATTTTTTGTATGAACAAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA	312			
Db	241	GAATTTTTTGTATGAACAAAGACGACTTTGTGATCTTCGGCTTTTCAACCATTTTTAAAA	300			
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTGTCT	372			
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTGTCT	360			
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432			
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420			
Qy	433	AGAAATATTCCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492			

Db	421		AGAAATATCTTAAATGTTGTAAAGAAAGCTGTGGATCTTAGGGATCTTAAATTCACCTCAT	480
Qy	493		AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	552
Db	481		AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	540
Qy	553		ATATATATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAAATAGTTTCTCCA	612
Db	541		ATATATATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAAATAGTTTCTCCA	600
Qy	613		AATAATGACAAGCAGAAAGTATACTCTGAAAAACAACCATGACTGTGTGCCAGAAACAAGTA	672
Db	601		AATAATGACAAGCAGAAAGTATACTCTGAAAAACAACCATGACTGTGTGCCAGAAACAAGTA	660
Qy	673		ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661		ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733		CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721		CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793		TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781		TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853		AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTTATTCACAACCTGCCAATGGAC	912
Db	841		AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTTATTCACAACCTGCCAATGGAC	900
Qy	913		TGTTTTACAAATGCCATCTTATTTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901		TGTTTTACAAATGCCATCTTATTTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973		GAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961		GAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033		GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGATATC	1092
Db	1021		GCAACCTATGTGAATGTAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGATATC	1080
Qy	1093		TACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081		TACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153		CCCAGTGGAAATGAATGGCTGAATTATGATATATACATTCCTGATCTTCTCTGCTGCTCT	1212
Db	1141		CCCAGTGGAAATGAATGGCTGAATTATGATATATACATTCCTGATCTTCTCTGCTGCTCT	1200
Qy	1213		CGACTTTGCTCTTCCATTGTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201		CGACTTTGCTCTTCCATTGTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273		CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261		CCATTGGCATGGGGAAATATAAACTTGTGTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333		ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCATTATGGT	1392
Db	1321		ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCATTATGGT	1380
Qy	1393		GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381		GTTACTGGATCAAATCCAAATAAAGAAACTCCATGCTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453		AGCAGTGTGGTAAAGTTCCAGATATGTCACTGATTGAAGAGCATGCCAATTTGGTCTGTA	1512
Db	1441		AGCAGTGTGGTAAAGTTCCAGATATGTCACTGATTGAAGAGCATGCCAATTTGGTCTGTA	1500
Qy	1513		TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501		TCCCGAGAAGCAGGATTTAGCTATTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573		AATGAATTAAAGGAAAAATGACAAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561		AATGAATTAAAGGAAAAATGACAAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Qy	1633		TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGTAGAGTACACAGACACTATTGTGTAAC	1692

SCORE Search Results Details for Application 10591347 and Search Result 20110506_133209_us-10-591-347-2.mi				
Db	1621	TCTGAAATCACTGAGCAGGAGAAAAGATTTCCTATGGAGTCACAGACACTATTGTGTA	1680	
Qy	1693	ATCCCCGAAATTTCTACCCAAATTTGCTTCTGTCTGTAAATGGAATTC	1752	
Db	1681	ATCCCCGAAATTTCTACCCAAATTTGCTTCTGTCTGTAAATGGAATTC	1740	
Qy	1753	GCCAGATGTATTGCTTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATG	1812	
Db	1741	GCCAGATGTATTGCTTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATG	1800	
Qy	1813	CTTCTGGAGCTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTG	1872	
Db	1801	CTTCTGGAGCTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTG	1860	
Qy	1873	AAATATTTAAACAGATGACAAACTTTCTCAGTATTTAAATTCAGCTAGTACAGGTC	1932	
Db	1861	AAATATTTAAACAGATGACAAACTTTCTCAGTATTTAAATTCAGCTAGTACAGGTC	1920	
Qy	1933	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTA	1992	
Db	1921	TATGAACAATATTTGGATAACTTGCTTGTGAGATTTTACTGAAGAAAGCATTGACTA	1980	
Qy	1993	CAAGGATTTGGGCACTTTTCTTTTGGCATTTAAATCTGAGATGCACAATAAAGCATT	2052	
Db	1981	CAAGGATTTGGGCACTTTTCTTTTGGCATTTAAATCTGAGATGCACAATAAAGCATT	2040	
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCTATTGTGTCGATGTGGGATGTATTGAAG	2112	
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCTATTGTGTCGATGTGGGATGTATTGAAG	2100	
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACTGACATTCT	2172	
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACTGACATTCT	2160	
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAATG	2232	
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAATG	2220	
Qy	2233	CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCCTCTAAACCCCTGCTCAT	2292	
Db	2221	CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCCTCTAAACCCCTGCTCAT	2280	
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAAAATATGTCTTCTGCAAAAAGGCCAT	2352	
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAAAATATGTCTTCTGCAAAAAGGCCAT	2340	
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACATGAGATCAT	2412	
Db	2341	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACATGAGATCAT	2400	
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACTTCAAATATTCGTAATTAT	2472	
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACTTCAAATATTCGTAATTAT	2460	
Qy	2473	GAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTACCTTATGGTTGTCTG	2532	
Db	2461	GAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTACCTTATGGTTGTCTG	2520	
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCA	2592	
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCA	2580	
Qy	2593	CAGTGCAAAGGCGGCTTGAAGGTGCACCTGCAGTTCAACAGCCACACACTACATCA	2652	
Db	2581	CAGTGCAAAGGCGGCTTGAAGGTGCACCTGCAGTTCAACAGCCACACACTACATCA	2640	
Qy	2653	CTCAAAGACAAGAACAAAGAGAAATATATGATGCAGCCATTGACCTGTTTACAGGT	2712	
Db	2641	CTCAAAGACAAGAACAAAGAGAAATATATGATGCAGCCATTGACCTGTTTACAGGT	2700	
Qy	2713	TGTGCTGGATAGCTGTGAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTA	2772	
Db	2701	TGTGCTGGATAGCTGTGAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTA	2760	
Qy	2773	ATCATGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCA	2832	
Db	2761	ATCATGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCA	2820	
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTGTTTGGACACAGGATT	2892	
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTGTTTGGACACAGGATT	2880	

Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCAATGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCAATGAACTGAAAGATAACTGAGAAAATGAAAGCTCACTCTGGA	3240

RESULT 8

US-08-780-872-34

; Sequence 34, Application US/08780872

; Patent No. 5846824

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu

; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter

; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stefano; Gout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Felfe & Lynch

; STREET: 805 Third Avenue

; CITY: New York

; STATE: New York

; COUNTRY: USA

; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/780,872

; FILING DATE: 09-JAN-1997

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/162,081

; FILING DATE: February 7, 1994

; APPLICATION NUMBER: PCT/GB93/00761

; FILING DATE: 13 April 1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Pasqualini, Patricia A.

; REGISTRATION NUMBER: 34,894

; REFERENCE/DOCKET NUMBER: LUD 5256

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 688-9200

; TELEFAX: (212) 838-3884

; INFORMATION FOR SEQ ID NO: 34:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3240 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-780-872-34

Query Match 94.5%; Score 3236.8; DB 2; Length 3240;

Best Local Similarity 99.9%;

Matches 3238; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	13	ATGCTTCCAAGACCATCATCAGGTGAAGTGTGGGCGATCCACTTGATGCCCCAAGAATC	72

Db	1	ATGCTTCCAAGACCATCATCAGGTGAAGTGTGGGCGATCCACTTGATGCCCCAAGAATC	60

Qy	73	CTAGTGGGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	132
Db	61	CTAGTGGGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACTATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTCTCCATCAA	192
Db	121	ACATTAGTAACTATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTCTCCATCAA	180
Qy	193	CTTCTTCAGAGTGAATCTTCTTACATTTTCGTAAGTGTACCACAAGAGCAGAAAGGGAA	252
Db	181	CTTCTTCAGAGTGAATCTTCTTACATTTTCGTAAGTGTACCACAAGAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	300
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	372
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAGAAGTATACTCTGAAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
Db	601	AATAATGACAAGCAGAGAAGTATACTCTGAAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTATTTCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAAGATTTATGTTCTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAATATTTCGAGACATTGACAAGATTTATGTTCTCGAACAGGTATC	1080
Qy	1093	TACCATGAGGAGAACCCCTTATGTGACAAATGTGAACACTCAAAGAGTACCTTGTGCCAAT	1152
Db	1081	TACCATGAGGAGAACCCCTTATGTGACAAATGTGAACACTCAAAGAGTACCTTGTGCCAAT	1140
Qy	1153	CCAGGTGGAATGAATGGCTGAATTTATGATATATACATTCTGTATCTTCCTCGTGTGCT	1212
Db	1141	CCAGGTGGAATGAATGGCTGAATTTATGATATATACATTCTGTATCTTCCTCGTGTGCT	1200
Qy	1213	CGACTTTTGCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTTGCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260

Qy	1273	CCATTGGCATGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCATGGGAAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTATTGGT	1380
Qy	1393	GTTACTGGATCAAAATCCAAATAAAGAAATCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAAATCCAAATAAAGAAATCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTTAGCTATTTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGAGAAGCAGGATTTAGCTATTTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAGGGAATAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCCTCT	1632
Db	1561	AATGAATTAAGGGAATAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCCTCT	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTCATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTCATGGAGTCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTTCTACCCAAATTTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTTCTACCCAAATTTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGAGTGAATTAACCCAGATCCTATGGTTCGAGGTTTGTGCTTCGGTGCTTGAA	1872
Db	1801	CTTCTGGAGTGAATTAACCCAGATCCTATGGTTCGAGGTTTGTGCTTCGGTGCTTGAA	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTATTTAATTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTTGGATAAATTTGCTTGTGAGATTTTACTGAAGAAAGCATTTGACTAAT	1992
Db	1921	TATGAACAATATTTTGGATAAATTTGCTTGTGAGATTTTACTGAAGAAAGCATTTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACCTTTTCTTTTGGCAATTAATACTCGAGATGCACAAATAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACCTTTTCTTTTGGCAATTAATACTCGAGATGCACAAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCTCTATTGTGCGTCATGTGGGATGTATTGAAG	2112
Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCTCTATTGTGCGTCATGTGGGATGTATTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACGTACATTCTCAA	2172
Db	2101	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACGTACATTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTGTAGTGACAAATGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTGTAGTGACAAATGAGG	2220
Qy	2233	CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGTCTATCAA	2292
Db	2221	CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGTCTATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCCTTCTGCAAAAAGGCCCATGTGG	2352
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGTCCTTCTGCAAAAAGGCCCATGTGG	2340
Qy	2353	TTGAATTTGGGAGAACCCAGACATCATGTACAGAGTTACTGTTTTCAGAACAATGAGATCATC	2412
Db	2341	TTGAATTTGGGAGAACCCAGACATCATGTACAGAGTTACTGTTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAAATTATTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAAATTATTCGTATTATG	2460
Qy	2473	GAAATATCTGGCAAAATCAAGGTCTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532

Db	2461	GAAATAATCTGGCAAAATCAAGGCTCTTGATCTTCGAATGTTACCTTATGGTGTGCTGTC	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCAAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCAAAATT	2580
Qy	2593	CAGTGCAAAGGCGCGCTTGAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAGGCGCGCTTGAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTGGTTATAAAGCAGAACGTGTGCCATTGTGTTTGACACAGGATTTC	2892
Db	2821	AAGAAGAAAAAATTGGTTATAAAGCAGAACGTGTGCCATTGTGTTTGACACAGGATTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGACAAGAGAATTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGACAAGAGAATTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3060
Qy	3073	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTCGAAAGACCCTAGCCTTAGATAAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGTTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGTTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA	3240

RESULT 9

US-09-085-957-34

; Sequence 34, Application US/09085957

; Patent No. 6274327

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu

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; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stefano; Gout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

; CORRESPONDENCE ADDRESS:

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; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/085,957

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
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; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-085-957-34

```

Query Match 94.5%; Score 3236.8; DB 3; Length 3240;
 Best Local Similarity 99.9%;
 Matches 3238; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY	13	ATGCCTCCAAGACCATCATCAGGTGAAC	TGTTGGGGCATCCACTTGATGCCCCCAAGAA	72
DB	1	ATGCCTCCAAGACCATCATCAGGTGAAC	TGTTGGGGCATCCACTTGATGCCCCCAAGAA	60
QY	73	CTAGTGGAAATGTTTACTACCAAA	TGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	132
DB	61	CTAGTGGAAATGTTTACTACCAAA	TGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	120
QY	133	ACATTAGTAACCTATAAAGCATGAAC	TATTTAAAGAAAGCAAGAAAATACCCCTCTCCATCAA	192
DB	121	ACATTAGTAACCTATAAAGCATGAAC	TATTTAAAGAAAGCAAGAAAATACCCCTCTCCATCAA	180
QY	193	CTTCTTCAAGATGAATCTTCTTACAT	TTTCGTAAGTGTACCCAAGAAGCAGAAAGGGAA	252
DB	181	CTTCTTCAAGATGAATCTTCTTACAT	TTTCGTAAGTGTACCCAAGAAGCAGAAAGGGAA	240
QY	253	GAATTTTTTGTATGAAACAAGACGAC	TTTGATCTTCGGCTTTTTCAACCACTTTTTAAAA	312
DB	241	GAATTTTTTGTATGAAACAAGACGAC	TTTGATCTTCGGCTTTTTCAACCACTTTTTAAAA	300
QY	313	GTAATTGAACCAAGTAGGCAACCGTGA	AGAAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	372
DB	301	GTAATTGAACCAAGTAGGCAACCGTGA	AGAAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	360
QY	373	ATCGGCATGCCAGTGTGCGAATTTGAT	ATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
DB	361	ATCGGCATGCCAGTGTGCGAATTTGAT	ATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
QY	433	AGAAATATTCTTAATGTTTGTAAAGA	AGCTGTGGATCTTAGGGATCTTAATCACCTCAT	492
DB	421	AGAAATATTCTTAATGTTTGTAAAGA	AGCTGTGGATCTTAGGGATCTTAATCACCTCAT	480
QY	493	AGTAGAGCAATGTATGTCTATCCGCC	ACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	552
DB	481	AGTAGAGCAATGTATGTCTATCCGCC	ACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	540
QY	553	ATATATAATAAATGGATAGAGGCCAA	ATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
DB	541	ATATATAATAAATGGATAGAGGCCAA	ATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
QY	613	AATAATGACAAGCAGAGAAGTATACT	CTGAAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
DB	601	AATAATGACAAGCAGAGAAGTATACT	CTGAAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
QY	673	ATTGCTGAAGCAATCAGGAAAAAACTA	GAAAGTATGTTGTATCATCTGAACAATTAATA	732
DB	661	ATTGCTGAAGCAATCAGGAAAAAACTA	GAAAGTATGTTGTATCATCTGAACAATTAATA	720
QY	733	CTCTGTGTTTTAGAAATATCAGGGCA	AGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792
DB	721	CTCTGTGTTTTAGAAATATCAGGGCA	AGTACATTTTAAAGTGTGTGGATGTGATGAATAC	780
QY	793	TTCTAGAAAAATATCCTCTGAGTCAG	TATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
DB	781	TTCTAGAAAAATATCCTCTGAGTCAG	TATAAGTATATAAGAAGCTGTATAATGCTTGGG	840

QY	853	AGGATGCCCAATTGGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841		
QY	913	AGGATGCCCAATTGGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Db	901		
QY	973	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901		
QY	973	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	960
Db	961		
QY	973	GAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961		
QY	961	GAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1020
Db	1033		
QY	1033	GCAACCTACGTGAATCTAAATATTCCGAGACATTGACAAGATTATGTTCGAAACAGGTATC	1092
Db	1021		
QY	1021	GCAACCTATGTGAATGTAATATTCCGAGACATTGACAAGATTATGTTCGAAACAGGTATC	1080
Db	1093		
QY	1093	TACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081		
QY	1081	TACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Db	1153		
QY	1153	CCAGGTGGAATGAATGGCTGAATTATGATATATACATCTTCTCGTGCCTGCT	1212
Db	1141		
QY	1141	CCAGGTGGAATGAATGGCTGAATTATGATATATACATCTTCTCGTGCCTGCT	1200
Db	1213		
QY	1213	CGACTTTGCCCTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGTAAAGAGGAACACTGT	1272
Db	1201		
QY	1201	CGACTTTGCCCTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGTAAAGAGGAACACTGT	1260
Db	1273		
QY	1273	CCATTGGCATGGGGAAATATAAACTTGTATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261		
QY	1261	CCATTGGCATGGGGAAATATAAACTTGTATTACACAGACACTCTAGTATCTGGAAAA	1320
Db	1333		
QY	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321		
QY	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1380
Db	1393		
QY	1393	GTTACTGGATCAAAATCCAAATAAGAGAACTCCATGCTTAGAGTTGGAGTTTACTGGTTC	1452
Db	1381		
QY	1381	GTTACTGGATCAAAATCCAAATAAGAGAACTCCATGCTTAGAGTTGGAGTTTACTGGTTC	1440
Db	1453		
QY	1453	AGCAGTGGTAAAGTTCACAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441		
QY	1441	AGCAGTGGTAAAGTTCACAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Db	1513		
QY	1513	TCCCGAGAAGCAGGATTTAGCTATTTCCACGCGAGGACTAGTAAACAGACTAGCTAGAGAC	1572
Db	1501		
QY	1501	TCCCGAGAAGCAGGATTAGCTATTTCCACGCGAGGACTAGTAAACAGACTAGCTAGAGAC	1560
Db	1573		
QY	1573	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561		
QY	1561	AATGAATTAAGGGAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1620
Db	1633		
QY	1633	CTCGAAATCACTGAGCAGGAGAAAGATTTCATGGAGTACAGACACTATTGTGTAAC	1692
Db	1621		
QY	1621	CTCGAAATCACTGAGCAGGAGAAAGATTTCATGGAGTACAGACACTATTGTGTAAC	1680
Db	1693		
QY	1693	ATCCCCGAAATCTACCCAAATTGCTTCTGTCTGTTAAATGGAATCTAGAGATGAAGTA	1752
Db	1681		
QY	1681	ATCCCCGAAATCTACCCAAATTGCTTCTGTCTGTTAAATGGAATCTAGAGATGAAGTA	1740
Db	1753		
QY	1753	GCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741		
QY	1741	GCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1800
Db	1813		
QY	1813	CTTCTGGAGTGAATATACCAGATCCTATGGTTCGAGGTTTGGCTGTTCCGGTCTTGGAA	1872
Db	1801		
QY	1801	CTTCTGGAGTGAATATACCAGATCCTATGGTTCGAGGTTTGGCTGTTCCGGTCTTGGAA	1860
Db	1873		
QY	1873	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATCAGCTAGTACAGGTCCTAAAA	1932
Db	1861		
QY	1861	AAATATTTAACAGATGACAACTTTCTCAGTATTTAATCAGCTAGTACAGGTCCTAAAA	1920
Db	1933		
QY	1933	TATGAACAATATTTTGGATAAATTTGCTTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921		
QY	1921	TATGAACAATATTTTGGATAAATTTGCTTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Db	1993		
QY	1993	CAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2052
Db	1981		
QY	1981	CAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAACAGTT	2040
Db	2053		
QY	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCATTGTCGTGCATGTGGAGTGATTTGAAG	2112

Db	2041	AGCCAGAGGTTTGGCCTGCTTTTGGAGTGCTATTGTGCGTCATGTTGGGATGTAATTTGAAG	2100
Qy	2113	CACCTGAAATAGGCAAGTCGAGGCAATGGAAGAGCTATTAACTTAACCTGCATCTCTCAA	2172
Db	2101	CACCTGAAATAGGCAAGTCGAGGCAATGGAAGAGCTATTAACTTAACCTGCATCTCTCAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTAGACAAATGAGG	2232
Db	2161	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTAGACAAATGAGG	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCAA	2292
Db	2221	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCAA	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGCTTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATTATGCTTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTTGGGAGAACCCAGACATCATGTCTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2412
Db	2341	TTGAATTTGGGAGAACCCAGACATCATGTCTCAGAGTTACTGTTTCAGAACAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATTAATTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATTAATTCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGCTTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGCTTTGATCTTCGAATGTTACCTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCAAAATT	2592
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Qy	2593	CAGTGCAAAAGCGCGCTTAAAGGTGCACCTGCAGTTCAACAGCCACACACTTATCAGTGG	2652
Db	2581	CAGTGCAAAAGCGCGCTTAAAGGTGCACCTGCAGTTCAACAGCCACACACTTATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACAGGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACAGGTTCA	2700
Qy	2713	TGTGCTGGATAGCTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATAGCTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2760
Qy	2773	ATCATGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTTGGATCAC	2832
Db	2761	ATCATGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAAGCAGAACGTGTGCCATTGTTTGGACACAGGATTTC	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAAGCAGAACGTGTGCCATTGTTTGGACACAGGATTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGACAAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGACAAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGTATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGTATGACATTGCA	3060
Qy	3073	TACATTGAAAGACCCTAGCCTTAGATAAAAACTGAGCAAGAGGCTTTGGAGATTTCATG	3132
Db	3061	TACATTGAAAGACCCTAGCCTTAGATAAAAACTGAGCAAGAGGCTTTGGAGATTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA	3252
Db	3181	ACAATTAACAGCATGCATTGAACTGAAAGATAACTGAGAAAAATGAAAGCTCACTCTGGA	3240

US-09-325-095-34
; Sequence 34, Application US/09325095
; Patent No. 7422849
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Balai; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/325,095
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/085,957
; FILING DATE:
; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
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; REGISTRATION NUMBER: 34,894
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; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3240 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-325-095-34

Query Match		94.5%;	Score 3236.8;	DB 8;	Length 3240;
Best Local Similarity		99.9%;			
Matches 3238;		Conservative	0;	Mismatches	2;
			Indels	0;	Gaps
					0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	132
Db	61	CTAGTGGAAATGTTTACTACCAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCCTCCATCA	192
Db	121	ACATTAGTAACATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCCTCCATCA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTACCCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTACCCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGTATGAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGTATGAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	300
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	372
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGACTTCCGA	432

	361	ATCGCGATGCCAGTGTGCGAATTTCATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATCTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	670
Db	601	AATAATGACAAGCAGAAGTATCTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGGATGTATGAATAC	792
Db	721	CTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGGATGTATGAATAC	780
Qy	793	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTAATTCAGAGCGCAATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCTTAATTCAGAGCGCAATTCCACAGCTACACCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1033
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1021
Qy	1033	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAGAAATTATGTTTCGAACAGGATCA	1093
Db	1021	GCAACCTACGTGAATCTAAATATTTCGAGACATTGACAGAAATTATGTTTCGAACAGGATCA	1081
Qy	1093	TACCATTGGAGGAGAACCTTATGTGACAATTGGAACACTCAAAAGAGTACCTTGTGTCAAAT	1153
Db	1081	TACCATTGGAGGAGAACCTTATGTGACAATTGGAACACTCAAAAGAGTACCTTGTGTCAAAT	1141
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATCCGTGATCTTCCTCGTGCTGCT	1213
Db	1141	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATCCGTGATCTTCCTCGTGCTGCT	1201
Qy	1213	CGACTTTGCCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1273
Db	1201	CGACTTTGCCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1261
Qy	1273	CCATTGGCATGGGGAATAATAAATCTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1333
Db	1261	CCATTGGCATGGGGAATAATAAATCTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1321
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGAATTAGAAGATTGCTGAACCTATTGGT	1393
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Db	1381	GTTACTGGATCAAAATCCAAATAAGAGAAATCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1441
Qy	1453	AGCAGTGTGGTAAAGTTCCCGAGATATGTCAGTGATTGAAGAGCATGCCAATTTGGTCTGTA	1513
Db	1441	AGCAGTGTGGTAAAGTTCCCGAGATATGTCAGTGATTGAAGAGCATGCCAATTTGGTCTGTA	1501
Qy	1513	TCCGAGAGAAGCAGGATTAGCTATTCCCGACGAGCACTGAGTAACAGACTAGCTAGAGAC	1573
Db	1501	TCCGAGAGAAGCAGGATTAGCTATTCCCGACGAGCACTGAGTAACAGACTAGCTAGAGAC	1561
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Db	1561	AATGAATTAAAGGAAAAATGACAAAGAAGCAGCTCAAAAGCAATTTCTACACGAGATCCTCTC	1621

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Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACACTATTGTGTAAC	1680
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Db	1681	ATCCCGGAAATTCACCCAATTGCTTCTGCTGTCTTAAATGGAATTCAGAGATGAAGTA	1740
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Db	1741	GCCCAGATGATTGCTTGGTAAAAGATTGGCCTCCAATCAAACTGAACAGGCTATGGAA	1800
Qy	1813	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCCGTTGCTTGGAA	1872
Db	1801	CTTCTGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTTGCTGTTCCGTTGCTTGGAA	1860
Qy	1873	AAATATTTAAACAGATGACAAACTTTCTCAGTATTTAATTTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAAACAGATGACAAACTTTCTCAGTATTTAATTTCAGCTAGTACAGGTCCTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAACTTGCCTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAATATTTGGATAACTTGCCTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1980
Qy	1993	CAAAGGATTGGGCACTTTTCTTTTGGCATTTAAATCTGAGATGCACAATAAAACAGTT	2052
Db	1981	CAAAGGATTGGGCACTTTTCTTTTGGCATTTAAATCTGAGATGCACAATAAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATGTATTGAAG	2112
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Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAACGACATTCCTAAA	2172
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Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTTATCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTTATCGTATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGCTTTGATCTTCGAATGTTACCTTTATGGTTGTCTGTCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGCTTTGATCTTCGAATGTTACCTTTATGGTTGTCTGTCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATTCACACTATTATGCAAAATT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATTCACACTATTATGCAAAATT	2580
Qy	2593	CAGTGCAAAAGGCGCTTGAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGCAAAAGGCGCTTGAAGGTGCACTGCAGTTCAACAGCCACACACTACATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2700
Qy	2713	TGTGCTGGATAGCTGTGTAGCTACCTTCATTTTGGGAATTGAGATCGTCACAATAGTAAC	2772
Db	2701	TGTGCTGGATAGCTGTGTAGCTACCTTCATTTTGGGAATTGAGATCGTCACAATAGTAAC	2760
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Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
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Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
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RESULT 11

US-11-443-428A-73309

; Sequence 73309, Application US/11443428A

; Patent No. 7745391

; GENERAL INFORMATION:

; APPLICANT: Mintz, Liat

; APPLICANT: Xie, Hanqing

; APPLICANT: Dahari, Dvir

; APPLICANT: Levanon, Erez

; APPLICANT: Freilich, Shiri

; APPLICANT: Beck, Nili

; APPLICANT: Zhu, Wei-Yong

; APPLICANT: Wasserman, Alon

; APPLICANT: Hermesh, Chen

; APPLICANT: Azar, Idit

; APPLICANT: Bernstein, Jeanne

; TITLE OF INVENTION: METHODS AND SYSTEMS USEFUL FOR ANNOTATING BIOMOLECULAR SEQUENCES

; FILE REFERENCE: 02/23929

; CURRENT APPLICATION NUMBER: US/11/443,428A

; CURRENT FILING DATE: 2006-05-31

; NUMBER OF SEQ ID NOS: 1034312

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 73309

; LENGTH: 4300

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

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; LOCATION: (15)..(15)

; OTHER INFORMATION: n is a, c, g, or t

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; OTHER INFORMATION: n is a, c, g, or t

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; NAME/KEY: misc_feature

; LOCATION: (27)..(27)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (30)..(30)

; OTHER INFORMATION: n is a, c, g, or t

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (59)..(59)

; OTHER INFORMATION: n is a, c, g, or t

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; NAME/KEY: misc_feature

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; OTHER INFORMATION: n is a, c, g, or t

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; NAME/KEY: misc feature

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; LOCATION: (90)..(90)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (354)..(354)
; OTHER INFORMATION: n is a, c, g, or t
US-11-443-428A-73309
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Query Match		94.2%;	Score 3225.4;	DB 11;	Length 4300;
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Qy	61	CCCCAAGAATCCTAGTGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC	120		
Db	232	CCCCAAGAATCCTAGTGAATGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGC	291		
Qy	121	CTCGTGAGGCTACATTAGTAACATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATAC	180		
Db	292	CTCGTGAGGCTACATTAAATAACATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATAC	351		
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Db	352	CNCTCCATCAACTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTACCCAAGAA	411		
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Db	412	GCAGAAAGGGAAGAATTTTTTGATGAAACAAGACGACTTTTGTATCTTCGGCTTTTTTCAA	471		
Qy	301	CCATTTTTAAAAGTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	360		
Db	472	CCCTTTTTAAAAGTAATTGAACAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAA	531		
Qy	361	ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA	420		
Db	532	ATTGGTTTTGCTATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTA	591		
Qy	421	CAGGACTTCGGAAGAAATATCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTT	480		
Db	592	CAGGACTTCGGAAGAAATATCTGAACGTTTGTAAAGAAGCTGTGGATCTTAGGGACCTC	651		
Qy	481	AATTCACTTCATAGTAGACCAATGTATGTCTATCCGGCACATGTAGAATCTTACCAGAG	540		
Db	652	AATTCACTTCATAGTAGACCAATGTATGTCTATCTCCAAATGTAGAATCTTACCAGAA	711		
Qy	541	CTGCCAAAGCACATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTA	600		
Db	712	TGCCAAAGCACATATATAATAAATTAGATAAAGGGCAAATAATAGTGGTGATCTGGGTA	771		
Qy	601	ATAGTTTCTCCAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	660		
Db	772	ATAGTTTCTCCAATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTG	831		
Qy	661	CCAGAACAAAGTAATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCT	720		
Db	832	CCAGAACAAAGTAATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCCTCT	891		
Qy	721	GAACAATTAACACTCTGTGTTTTAGAATATCAGGGCAAGTACATTTTAAAAGTGTGTGGA	780		
Db	892	GAACAATAAACTCTGTGTTTTAGAATATCAGGGCAAGTATATTTAAAAGTGTGTGGA	951		
Qy	781	TGTGATGAATACTTCTAGAAAAATATCCTCTGAGTCAAGTATAAGATATATAAGAAGCTGT	840		
Db	952	TGTGATGAATACTTCTAGA-----	971		
Qy	841	ATAATGCTTTGGGAGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAA	900		
Db	972	-----GATGCCCAATTTGATGTTGATGGCTAAAGAAAGCCTTTATTCTCAA	1017		
Qy	901	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCAGACGCATTTCCACAGCTACACCA	960		
Db	1018	CTGCCAATGGACTGTTTTACAATGCCATCTTATTCAGACGCATTTCCACAGCTACACCA	1077		
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Db	1078	TGAATGGAGAAACATCTACAAAATCCCTTTGGGTTATAAATAGTGCACTCAGAATA	1137
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Db	1198	CGAACAGGTATCTACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTA	1257
Qy	1141	CCTTGTTCCAATCCCAGGTGGAATGAATGGCTGAATATTGATATATACATTCTCTGATCTT	1200
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Qy	1201	CCTCGTGCTGCTCGACTTTGCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1260
Db	1318	CCTCGTGCTGCTCGACTTTGCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAA	1377
Qy	1261	GAGGAACACTGTCCATTGGCATGGGGAATATAAACTTGTTGATTACACAGACACTCTA	1320
Db	1378	GAGGAACACTGTCCATTGGCATGGGGAATATAAACTTGTTGATTACACAGACACTCTA	1437
Qy	1321	GTATCTGGA AAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAGAATTTGCTG	1380
Db	1438	GTATCTGGA AAAAATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAGAATTTGCTG	1497
Qy	1381	AACCCATTGGTGTTACTGGATCAAATCCAAATAAAGAAACTCCATGCCTTAGAGTTGGAG	1440
Db	1498	AACCCATTGGTGTTACTGGATCAAATCCAAATAAAGAAACTCCATGCCTTAGAGTTGGAG	1557
Qy	1441	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCGAGATATGTCAGTGATTGAAGAGCATGCC	1500
Db	1558	TTTGACTGGTTCAGCAGTGTGGTAAAGTTCCCGAGATATGTCAGTGATTGAAGAGCATGCC	1617
Qy	1501	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCAAGCAGGACTGAGTAACAGA	1560
Db	1618	AATTGGTCTGTATCCCGAGAAGCAGGATTTAGCTATTCCCAAGCAGGACTGAGTAACAGA	1677
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Db	1678	CTAGCTAGAGACAATGAATTAAGGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACA	1737
Qy	1621	CGAGATCCTCTCTCTGAAATCACTGAGCAGGAGAAAGATTTTCTATGGAGTCACAGACAC	1680
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Db	1798	TATTGTGTAACATATCCCCGAAATCTACCCAAATTGCTTCTGTCTGTTAAATGGAATCT	1857
Qy	1741	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCCTCAAATCAAACCTGAA	1800
Db	1858	AGAGATGAAGTAGCCAGATGTATTGCTTGGTAAAAGATTGGCCCTCAAATCAAACCTGAA	1917
Qy	1801	CAGGCTATGGAACCTTCGGACTGTAATTAACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1860
Db	1918	CAGGCTATGGAACCTTCGGACTGTAATTAACCCAGATCCTATGGTTCGAGGTTTTGCTGTT	1977
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Qy	2581	ATTATGCAAAATTCAGTGCAAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2640	
Db	2698	ATTATGCAAAATTCAGTGCAAAAGGCGGCTTGAAAGGTGCACTGCAGTTCAACAGCCACACA	2757	
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Db	2758	CTACATCAGTGGCTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTG	2817	
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Db	2818	TTTACACGTTTCATGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTTGAGATCGT	2877	
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Db	2878	CACAAATAGTAACATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACAC	2937	
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Qy	2881	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGATGCACAAAGACAAGAGAA	2940	
Db	2998	ACACAGGATTTCTTAATAGTGATTAGTAAAGGAGCCCAAGATGCACAAAGACAAGAGAA	3057	
Qy	2941	TTTGAGAGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3000	
Db	3058	TTTGAGAGTTTCAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAAT	3117	
Qy	3001	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3060	
Db	3118	CTCTTCATAAATCTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTT	3177	
Qy	3061	GATGACATTGCATACATTTCGAAAGACCTTAGCCTTAGATAAAACCTGAGCAAGAGGCTTTG	3120	
Db	3178	GATGACATTGCATACATTTCGAAAGACCTTAGCCTTAGATAAAACCTGAGCAAGAGGCTTTG	3237	
Qy	3121	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3180	
Db	3238	GAGTATTTTCATGAAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGAT	3297	
Qy	3181	TGGATCTTCCACACAATTAACAGCATGCATTGAACCTG-AAAGATAACTGAGAAAAATGAA	3239	
Db	3298	TGGATCTTCCACACAATTAACAGCATGCATTGAACCTGAAAAGATAACTGAGAAAAATGAA	3357	
Qy	3240	AGCTCACTCTGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAGACCGCATTGC	3299	
Db	3358	AGCTCACTCTGATTCCACACTGCACTGTTAATAACTCTCAGCAGGCAAGACCGCATTGC	3417	
Qy	3300	ATAGGAATTGCACAATCCATGAACAGCATTAG-ATTTACAGCAAGAACAGAAATAAAATA	3358	
Db	3418	ATAGGAATTGCACAATCCATGAACAGCATTAGAAATTTACAGCAAGAACAGAAATAAAATA	3477	
Qy	3359	CTATATAAATTTAAATAATGTAAACGCAACAGGGTTTGATAGCACTTAAACTAGTTCATT	3418	
Db	3478	CTATATAAATTTAAATAATGTAAACGCAACAGGGTTTGATAGCACTTAAACTAGTTCATT	3537	

Qy 3419 TCAAAA 3424
 Db 3538 TCAAAA 3543

RESULT 12

US-08-162-081B-35

; Sequence 35, Application US/08162081B

; Patent No. 5824492

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felle, Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/162,081B

; FILING DATE: February 7, 1994

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/GB93/00761

; FILING DATE: 13 April 1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Pasqualini, Patricia A.

; REGISTRATION NUMBER: 34,894

; REFERENCE/DOCKET NUMBER: LUD 5256

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (212) 688-9200

; TELEFAX: (212) 838-3884

; INFORMATION FOR SEQ ID NO: 35:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3207 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-162-081B-35

Query Match 87.9%; Score 3008.6; DB 2; Length 3207;
 Best Local Similarity 96.1%;
 Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy 13 ATGCCCTCCAAGACCATCATCAGGTGAACGTGTGGGGCATCCACTTGATGCCCCCAAGAATC 72
 Db 1 ATGCCCTCCAAGACCATCATCAGGTGAACGTGTGGGGCATCCACTTGATGCCCCCAAGAATC 60

Qy 73 CTAGTGAAGTGTCTTACTACCAAAATGGAATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT 132
 Db 61 CTAGTAGAATGTCTTACTACCAAAATGGGATGATAGTGACTTTAGAAATGCCTCCGTGAGGCT 120

Qy 133 ACATTAGTAGAATATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTCTCCATCAA 192
 Db 121 ACGTTAATAACGATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTCTCCATCAA 180

Qy 193 CTCTCTCAAGATGAATCTCTTACATTTTCGTAAGTGTACCCCAAGAAGCAGAAAGGGAA 252
 Db 181 CTCTCTCAAGATGAATCTCTTACATTTTCGTAAGTGTACCCCAAGAAGCAGAAAGGGAA 240

Qy 253 GAATTTTTTGATGAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAAA 312
 Db 241 GAATTTTTTGATGAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCCCTTTTTAAAAA 300

Qy 313 GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCCTCAATCGAGAAATTGGTTTTGCT 372
 Db 301 GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCCTCAATCGAGAAATTGGTTTTGCT 360

Qy 373 ATCGGCATGCCAGTGTGCGAATTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA 432

Db	361		ATCGGCATGCCAGTGTGTGAATTTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433		AGAAAAATTCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421		AGAAATATTCTCATGTGTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493		AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTCACAGAGCTGCCAAAGCAC	552
Db	481		AGTAGAGCAATGTATGTTTATCTCTCAAATGTAGAATCTTCACAGAACTGCCAAAGCAC	540
Qy	553		ATATATAATAAAATTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541		ATATATAATAAAATTGGATAAAGGGCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613		AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
Db	601		AATAATGACAAGCAGAAGTATACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673		ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAATA	732
Db	661		ATTGCTGAAGCAATCAGGAAAAAACTAGAAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733		CTCTGTGTTTATAGAAATACAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792
Db	721		CTCTGTGTTTATAGAAATACAGGGCAAGTATATTTTAAAGTGTGTGGATGTGATGAATAC	780
Qy	793		TTCCTAGAAAAATATCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781		TTCCTAGAAAAATATCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853		AGGATGCCCAATTGAAGATGATGGCTAAAGAAAGCCTTTATTTCTCAACTGCCAATGGAC	912
Db	841		AGGATGCCCAATTGTGATGCTTATGGCTAAAGAAAGCCTCTATTTCTCAACTGCCAATGGAC	900
Qy	913		TGTTTTACAATGCCATCTTATTTCCAGACGCATTCCACAGCTACACCATATTAAGATGGA	972
Db	901		TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATTAAGATGGA	960
Qy	973		GAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961		GAACATCTACAAAAATCCCTTTGGGTTATAAATAGTGCATCAGAATAAAAAATCTTTGT	1020
Qy	1033		GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGATATC	1092
Db	1021		GCAACCTATGTGAATGTAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGATATC	1080
Qy	1093		TACCATGGAGGAGAACCCCTTATGTGCATATGTAACACTCAAAGAGTACCTTGTGCCAAT	1152
Db	1081		TACCATGGAGGAGAACCCCTTATGTGATAATGTAACACTCAAAGAGTACCTTGTGCCAAT	1140
Qy	1153		CCAGGTGGAATGAATGGCTGAATTTATGATATATACATTCCTGATCTTCCTCGTGCTGCT	1212
Db	1141		CCAGGTGGAATGAATGGCTGAATTTACGATATATACATTCCTGATCTTCCTCGTGCTGCT	1200
Qy	1213		CGACTTTGGCCTTCCATTGTCTGTGTTAAAGGCCGGAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201		CGACTTTGGCCTTCCATTGTCTGTGTTAAAGGCCGGAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273		CCATTGGCATGGGGAATATAAATCTGTTTGATTACACGACACTCTAGTATCTGGAAAA	1332
Db	1261		CCATTGGCATGGGGAATATAAATCTGTTTGATTACACGACACTCTAGTATCTGGAAAA	1320
Qy	1333		ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTGGT	1392
Db	1321		ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTGCTGAACCCATTGGT	1380
Qy	1393		GTTACTGGATCAAAATCCAAATAAGAGAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381		GTTACTGGATCAAAATCCAAATAAGAGAACTCCATGTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453		AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441		AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513		TCCCAGAGAAGCAGGATTTAGCTATTTCCACGCAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501		TCCCGTGAAGCAGGATTTAGTTATTTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573		AATGAATTAAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCTCTTC	1632

Db	1561	AATGAATTAAAGAGAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAAGATTTTCTATGGAGTCACAGACACTATTGTGTA	1692
Db	1621	TCTGAAATCACTGAGCAAGAGAAAAGATTTCTGTGGAGCCACAGACACTATTGTGTA	1680
Qy	1693	ATCCCCGAAATTCFACCCAAATTCGCTTCTGTCTGTTAAATGGAATCTAGAGATGA	1752
Db	1681	ATCCCCGAAATTCFACCCAAATTCGCTTCTGTCTGTTAAATGGAATCTAGAGATGA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAAGATTGGCCTCCAATCAAACTGAACAGGCTATG	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAAGATTGGCCTCCAATCAAGCCTGAACAGGCTATG	1800
Qy	1813	CTTCTGGAGCTGTAATTACCCAGATCCTATGGTTTCGAGGTTTGTCTGTTCCGGTG	1872
Db	1801	CTTCTGGAGCTGCAATTACCCAGATCCTATGGTTTCGAGGTTTGTCTGTTCCGGTG	1860
Qy	1873	AAATATTTAACAGATGACAAACTTTCTCAGTATTAAATTCAGTAGTACAGGTC	1932
Db	1861	AAATATTTAACAGATGACAAACTTTCTCAGTACCTAAATTCAGTAGTACAGGTC	1920
Qy	1933	TATGAACAATATTGGATAACTTGCCTGTGAGATTTTACTGAAGAAAGCATTGAC	1992
Db	1921	TATGAACAGTATTGGATAACCTGCTGTGAGATTTTACTCAAAAAGCGTTAACT	1980
Qy	1993	CAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAAC	2052
Db	1981	CAAAGGATCGGTACCTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAAAC	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTCGTGCATGTGGGATG	2112
Db	2041	AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCGCGTCATGTGGGATG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTAAC	2172
Db	2101	CACCTTAATAGGCAAGTTGAGCTATGGAAGCTCATTAACTTGACTGACATT	2160
Qy	2173	CAGGAGAGGAAGGATGAACACAAAAGGTACAGATGAAGTTT	2232
Db	2161	CAAGAGAGAAGGATGAACACAAAAGGTACAGATGAAGTTT	2220
Qy	2233	CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCTCTAAACCC	2292
Db	2221	CGACCAGATTTTCATGGATGCTCTCCAGGGCTTCTGTCTCTCTAAACCC	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAGAGTGTCGAATATGTCCTTCGCAAAAAGGCC	2352
Db	2281	CTGGGAAATCTCAGGCTGAAGAGTGTCGAATATGTCCTTCGCAAAAAGGCC	2340
Qy	2353	TGTAATTTGGGAGAACCCAGACATCATGTGCAGAGTTACTGTTTCAGAA	2412
Db	2341	TGTAATTTGGGAGAACCCAGACATCATGTGCAGAACTACTCTTTCAGAA	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAAT	2472
Db	2401	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCCCTCAGATT	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTACCTT	2532
Db	2461	GAAAAATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTACCTT	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATGAGGTGGTGCGAAATTCACACTAT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAGAAATTCACACTATA	2580
Qy	2593	CAGTCAAAAGGCGGCTTGAAGGTGCACTGCAGTTCAACAGCCACACACT	2652
Db	2581	CAGTGAAGGAGGCGCTGAAGGTGCACTGCAGTTTAAAGCCACACACT	2640
Qy	2653	CTCAAGAGCAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCT	2712
Db	2641	CTCAAGAGCAAGAACAAAGGGGAAATATATGATGCGGCCATCGATT	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGT	2772
Db	2701	TGTGCTGGATATTGTGTGCCACCTTCATTTTGGGAATTGGAGATCGT	2760
Qy	2773	ATCATGTGGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACT	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACT	2820

Qy	2833	AAGAAGAAAAAATTTGGTTATAAAACGAGAACGTGTGCCATTGTGTTTTGACACAGGATTTTC	2892
Db	2821		2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAAATTTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAAATTTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTACAAAGCCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941		3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001		3060
Qy	3073	TACATTCGAAAGACCTAGCCTTAGATAAAAAGTGGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061		3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAATGGATTTGGATCTTCCAC	3192
Db	3121		3180
Qy	3193	ACAATTAACAGCATGCATTGAACCTGA	3219
Db	3181		3207

RESULT 13
US-08-780-872-35
; Sequence 35, Application US/08780872
; Patent No. 5846824
; GENERAL INFORMATION:
; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
; APPLICANT: Stefano; Gout, Ivan Tarasovitch
; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
; TITLE OF INVENTION: THEIR PREPARATION AND USE
; NUMBER OF SEQUENCES: 50
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/780,872
; FILING DATE: 09-JAN-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Pasqualini, Patricia A.
; REGISTRATION NUMBER: 34,894
; REFERENCE/DOCKET NUMBER: LUD 5256
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-780-872-35

Query Match 87.9%; Score 3008.6; DB 2; Length 3207;
Best Local Similarity 96.1%;
Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGGGAATGTTTACTACCAATGGAATGATAGTACTTTAGAATGCCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAATGGGATGATAGTACTTTAGAATGCCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACTATAAAGCATGAACATTTTAAAGAAGCAAGAAAAACCCCTTCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAACATTTTAAAGAAGCAAGAAAAACCCCTTCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCTTTTTAAAA	300
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	372
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCCTTAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	492
Db	421	AGAAATATTCCTCAATGTTTGTAAAGAAGCTGTGGATCTTAGGGATCTTAATTCACCTCAT	480
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAATCTTACCAGAGCTGCCAAGCAC	552
Db	481	AGTAGAGCAATGTATGTTTATCTCCAAATGTAGAATCTTACCAGAACTGCCAAGCAC	540
Qy	553	ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTTGGATAAAGGGCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAAACAACCATGACTGTGTGCCAGAAACAGTA	672
Db	601	AATAATGACAAACAGAAGTATACTCTGAAAAACAACCATGACTGTGTGCCAGAAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAATAGAAATATGTTGCTATCATCTGAACAATTAATA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAATCGAAGTATGTTGCTATCATCTGAACAATTAATA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTTAAAGTGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGGAC	912
Db	841	AGGATGCCCAATTTGATGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCAGACGCAATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCAGACGCAATCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGTGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAATATTCGAGACATTGACAAGATTTATGTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCAGGTGGAATGAATGGCTGAATTATGATATATACATTCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCAGGTGGAATGAATGGCTGAATTACGATATATACATTCCTGATCTTCCTCGTGCTGCT	1200

Qy	1213	CGACTTTGCGCTTTCCATTGTGCTGTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCGCTTTCCATTGTGCTGTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAAATATAAACTGTTTGGATTACACAGACACTCTAGTATCTGGAAAA	1332
Db	1261	CCATTGGCTTGGGGAAATATAAACTGTTTGGATTACACAGATACTCTAGTATCTGGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCCTATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTGCTGAACCCCTATTGGT	1380
Qy	1393	GTTACTGGATCAAAATCCAATAAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAAATCCAATAAAGAAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTCCAGATATGTCAGTGATTGAAGAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTAGCTATTCCCACGAGGACTAGTAACAGACTAGTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTAGTTATTCCCATGCAGGACTAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTCTTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAAGAGAAAAATGATAAGAACAGCTCCGAGCAATTGTGACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTCCTATGGAGTCACAGACACTATTGTGTAACT	1692
Db	1621	TCTGAAATCACTGAGCAAGAGAAAGATTTCCTGTGGAGCCACAGACACTATTGTGTAACT	1680
Qy	1693	ATCCCCGAAATTCACCCAAATTGCTTCTGTCTGTTAAATGGAATTCCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTCACCCAAATTGCTTCTGTCTGTTAAATGGAATTCCTAGAGATGAAGTA	1740
Qy	1753	GCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAGATTGGCCTCCAATCAAGCCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCGGACTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTGGAA	1872
Db	1801	CTTCGGACTGCAATTACCCAGATCCTATGGTTCGAGGTTTGTGTTTCGGTGCTTAGAA	1860
Qy	1873	AAATATTTAAACAGATGACAAACTTCTCAGTATTTAAATCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAAACAGATGACAAACTTCTCAGTACCTAATTCAGCTAGTACAGGTAATAAAA	1920
Qy	1933	TATGAACAATATTTGGATAAATGCTTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAAATGCTTGTGAGATTTTACTCAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAGGATTTGGGCAGCTTTTCTTTTGGCATTAAAAATCTGAGATGCACAATAAACAAGTT	2052
Db	1981	CAAGGATCGGTCACTTTTCTTTTGGCATTAAAAATCTGAGATGCACAATAAACAAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGTGTCGATGTGGGATGTATTGAAG	2112
Db	2041	AGTCAGAGGTTTGGCCTGCTTTTGGAGTCCTATTGCCGTGATGTGGGATGTATCTGAAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACCTAACTGACATTCTCAAA	2172
Db	2101	CACCTTAATAGGCAAGTTGAGGCTATGGAAAAGCTCATTAACCTGACTGACATTCTCAAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTGTAGTGAGCAAAATGAGG	2232
Db	2161	CAAGAGAAGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTTGTAGTGAGCAAAATGCGG	2220
Qy	2233	CGACCAGATTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCCTCATCA	2292
Db	2221	CGACCAGATTTCATGGATGCTCTCCAGGGCTTCTGTCTCCTCTAAACCCCTGCCTCATCAG	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAAAATTATGTCCTCTGCAAAAAGGCCACTGTGG	2352
Db	2281	CTGGGAAATCTCAGGCTTGAAGAGTGTGCAAAATTATGTCCTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTGGGAGAACCCAGACATCATGTCAGAGTTACTGTTTCAGAACAAATGAGATCATC	2412
Db	2341	TTGAATTGGGAGAACCCAGACATCATGTCAGAAATTACTCTTTTCAGAACAAATGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACACTTCAAATTATTTCGTATTATG	2472

Db	2401		TTTAAAAATGGGGATGATTTACGGCAAGATATGCTAACCCCTTCAGATTATTCGCATTATG	2460
Qy	2473		GAAATATCTGGCAAAATCAAGGCTCTTGATCTTCGAATGTTACCTTTATGGTTGCTGTGCA	2532
Db	2461		GAAATATCTGGCAAAATCAAGGCTCTTGATCTTCGAATGTTACCTTTATGGATGTCTGTCA	2520
Qy	2533		ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGCAGAAATCTCACACTATTATGCAAAAT	2592
Db	2521		ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGAAGAAATCTCACACTATAATGCAGATT	2580
Qy	2593		CAGTGCAAAGGCGGCTTGAAAGGTGCACCTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581		CAGTGTAAGGAGGCCTGAAAGGTGCACCTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653		CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTC	2712
Db	2641		CTCAAAGACAAGAACAAAGGGGAAATATATGATGCGGCCATCGATTGTTTACAGATCA	2700
Qy	2713		TGTGCTGGATCTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701		TGTGCTGGATATTGTGTGCCACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773		ATCATGGTGAAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833		AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTTGTTTGGACACAGGATTC	2892
Db	2821		AAGAAGAAAAAATTTGGTTATAAACGAGAGCGCGTCCGTTGTTTGGACACAAGATTC	2880
Qy	2893		TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGAGCAAGAGAATTTGAGAGGTTT	2952
Db	2881		TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAGAGCAAGAGAATTTGAGAGGTTT	2940
Qy	2953		CAGGAGATGTGTTTACAAGGCTTATCTAGCTATTGCAGCAGATGCCAATCTCTTCATAAAT	3012
Db	2941		CAGGAGATGTGTTTACAAGGCTTATCTAGCTATTTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073		TACATTGCAAAAGACCCTAGCCCTTAGATAAAAACCTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061		TACATTGCAAAAGACCCTAGCCCTTAGATAAAAACCTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133		AAACAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121		AAACAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193		ACAATTAACAGCATGCATTGAACCTGA	3219
Db	3181		ACAATTAAGCAGCATGCTTTGAACCTGA	3207

RESULT 14

US-09-085-957-35

; Sequence 35, Application US/09085957

; Patent No. 6274327

GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu

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; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,

; APPLICANT: Stefano; Gout, Ivan Tarasovitch

; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,

; TITLE OF INVENTION: THEIR PREPARATION AND USE

; NUMBER OF SEQUENCES: 50

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COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

; COMPUTER: IBM PS/2

; OPERATING SYSTEM: PC-DOS

; SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/09/085,957
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/780,872
; FILING DATE: 09-JAN-1997
; APPLICATION NUMBER: 08/162,081
; FILING DATE: February 7, 1994
; APPLICATION NUMBER: PCT/GB93/00761
; FILING DATE: 13 April 1993
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; INFORMATION FOR SEQ ID NO: 35:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3207 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-085-957-35

```

Query Match 87.9%; Score 3008.6; DB 3; Length 3207;
 Best Local Similarity 96.1%;
 Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACGTGGGGCATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGAATGTTTACTACCAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAACTATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAACATATTTAAAGAAGCAAGAAAATACCCCTCTCCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGATGAAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGATGAAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCTTTTTAAAA	300
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGTTTTGCT	372
Db	301	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGTTTTGCT	360
Qy	373	ATCGGCATGCCAGTGTGCGAATTTGATATGGTTAAAGATCCTGAAGTACAGGACTTCCGA	432
Db	361	ATCGGCATGCCAGTGTGTAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTACCTCAT	492
Db	421	AGAAATATTCTCAATGTTTGTAAGAAGCTGTGGATCTTAGGGATCTTAATTACCTCAT	480
Qy	493	AGTAGAGCAATGTATGTCTATCCGCCACATGTAGAATCTTCACCAGAGCTGCCAAAGCAC	552
Db	481	AGTAGAGCAATGTATGTTTATCTCCCAAATGTAGAATCTTCACCAGAACTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTTGGATAGAGGCCAAATAATAGTGGTGATTTGGGTAATAGTTTCTCCA	612
Db	541	ATATATAATAAATTTGGATAAAGGGCAATAATAAGTGGTGATTTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGAAGTATACTCTGAAAAACAACCATGACTGTGTGCCAGAACAGTA	672
Db	601	AATAATGACAAGCAGAAGTATACTCTGAAAAACAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTTAAAA	732
Db	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAATTTAAAA	720
Qy	733	CTCTGTGTTTTAGAAATATCAGGGCAAGTACATTTTAAAGTGTGTGGATGTGATGAATAC	792
Db	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTTAAAGTGTGTGGATGTGATGAATAC	780

Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Db	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCTTTATTCTCAACTGCCAATGAC	912
Db	841	AGGATGCCCAATTTGTAGCTGATGGCTAAAGAAAGCCTCTATTCTCAACTGCCAATGAC	900
Qy	913	TGTTTTACAATGCCATCTTATTCCAGACGCATTCCACAGCTACACCATATATGAATGGA	972
Db	901	TGTTTTACAATGCCATCATATTCCAGACGCATCTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1032
Db	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGTGCACTCAGAATAAAAAATCTTTGT	1020
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTTATGTTTCGAACAGGTATC	1092
Db	1021	GCAACCTATGTGAATGTAAATATTCGAGACATTGACAAGATTTATGTTTCGAACAGGTATC	1080
Qy	1093	TACCATGGAGGAGAACCCCTTATGTGACAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1152
Db	1081	TACCATGGAGGAGAACCCCTTATGTGATAATGTGAACACTCAAAGAGTACCTTGTTCCAAT	1140
Qy	1153	CCCAGTGGGAATGAATGGCTGAATTATGATATATACATTCCTGATCTTCCTCGTGCTGCT	1212
Db	1141	CCCAGTGGGAATGAATGGCTGAATTACGATATATACATTCCTGATCTTCCTCGTGCTGCT	1200
Qy	1213	CGACTTTGCGCTTTCCATTGTCTGTGTTAAAGGCCGAAGGGTGCTAAAGAGGAACACTGT	1272
Db	1201	CGACTTTGCGCTTTCCATTGTCTGTGTTAAAGGCCGAAGGGTGCTAAAGAGGAACACTGT	1260
Qy	1273	CCATTGGCATGGGGAATATAAACTTGTTTGATTACACAGACACTCTAGTATCTGAAAA	1332
Db	1261	CCATTGGCATGGGGAATATAAACTTGTTTGATTACACAGATACTCTAGTATCTGAAAA	1320
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTTGCTGAACCCATTGGT	1392
Db	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTTGCTGAACCCATTGGT	1380
Qy	1393	GTTACTGGATCAAAATCCAATTAAGAAACTCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1452
Db	1381	GTTACTGGATCAAAATCCAATTAAGAAACTCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1440
Qy	1453	AGCAGTGTGGTAAAGTTCCCAGATATGTCAGTGATTGAAAGCATGCCAATTGGTCTGTA	1512
Db	1441	AGCAGTGTGGTAAAGTTTCCAGATATGTCAGTGATTGAAAGCATGCCAATTGGTCTGTA	1500
Qy	1513	TCCCGAGAAGCAGGATTAGCTATTCCCACGAGGACTGAGTAACAGACTAGCTAGAGAC	1572
Db	1501	TCCCGTGAAGCAGGATTAGTTATTCCCATGCAGGACTGAGTAACAGACTAGCTAGAGAC	1560
Qy	1573	AATGAATTAAAGGAAAAATGACAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561	AATGAATTAAAGAGAAAATGATAAAGAACAGCTCCGAGCAATTTGTACACGAGATCCTCTA	1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATTTCTATGGAGTCACAGACACTATTGTGTAAC	1692
Db	1621	TCTGAAATCACTGAGCAAGAGAAAGATTTCTGTGGAGCCACAGACACTATTGTGTAAC	1680
Qy	1693	ATCCCCGAAATTTCTACCCAAATTGCTTCTGTCTGTTAAATGGAATTTCTAGAGATGAAGTA	1752
Db	1681	ATCCCCGAAATTTCTACCCAAATTGCTTCTGTCTGTTAAATGGAACCTCTAGAGATGAAGTA	1740
Qy	1753	GCCAGATGATTGCTTGGTAAAGATTGGCCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGACTGCTTGGTAAAGATTGGCCCTCCAATCAAGCCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGAGCTGTAATTACCCAGATCCTATGGTTCGAGGTTTGTGCTGTCGGTGCTGGAA	1872
Db	1801	CTTCTGGAGCTGCAATTACCCAGATCCTATGGTTCGAGGTTTGTGCTGTCGGTGCTAGAA	1860
Qy	1873	AAATATTTAAACAGATGACAAAGTTTCTCAGTATTTAAATTCAGCTAGTACAGGTCCTAAAA	1932
Db	1861	AAATATTTAAACAGATGACAAACTTCTCAGTACCTAATTCAGCTAGTACAGGTAATAAAA	1920
Qy	1933	TATGAACAAATTTTGGATAACTTGCTGTGTGAGATTTTACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAACCTGCTGTGTGAGATTTTACTCAAAAAGCGTTAACTAAT	1980
Qy	1993	CAAAGGATTGGGCACCTTTTCTTTTGGCATTAAAACTGAGATGCACAATAAACAGATT	2052

Db	1981		CAAGGATCGGTCACTTTTCTTTTGGCAATTAATACTCGAGATGCACAATAAACAGTT	2040
Qy	2053		AGCCAGAGGTTTGGCCTGCTTTTGGAGTCTATTGTCGTGCATGTGGGATGTATTGAAG	2112
Db	2041		AGTCAGAGGTTTGGCCTGCTTTTGGAGTCTATTGCGGTGCATGTGGGATGTATCTGAG	2100
Qy	2113		CACCTGAATAGGCAAGTCGAGGCAATGGAAAAAGCTCAATTAACCTAGCATCTCTCAAA	2172
Db	2101		CACCTTAATAGGCAAGTTGAGGCTATGGAAAAGCTCAATTAACCTAGCATCTCTCAAA	2160
Qy	2173		CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGAGG	2232
Db	2161		CAAGAGAAAGGATGAAACACAAAAGGTACAGATGAAGTTTTAGTTGAGCAAAATGCGG	2220
Qy	2233		CGACCAGATTTTCATGGATGCCCTACAGGGCTTGCTGTCTCCTCTAAACCCCTGCTCATCA	2292
Db	2221		CGACCAGATTTTCATGGATGCTCTCCAGGGCTTTCTGTCTCCTCTAAACCCCTGCTCATCAG	2280
Qy	2293		CTAGGAAACCTCAGGCTTAAGAGAGTGTCAAAATTATGTCCTCTGCAAAAAGGCCACTGTGG	2352
Db	2281		CTGGGAAATCTCAGGCTTGAAGAGTGTCAAAATTATGTCCTCTGCAAAAAGGCCACTGTGG	2340
Qy	2353		TGAAATTTGGGAGAACCCAGACATCATGTCAAGATTACTGTTTTCAGAAACATAGAGTCATC	2412
Db	2341		TGAAATTTGGGAGAACCCAGACATCATGTCAAGATTACTGTTTTCAGAAACATAGAGTCATC	2400
Qy	2413		TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACACTTCAAATTTATCGTATTATG	2472
Db	2401		TTTAAAAATGGGGATGATTACGGCAAGATATGCTAACCCCTCAGATTATTTCGCAATTATG	2460
Qy	2473		GAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTACCTTATGTTGTCTGTCA	2532
Db	2461		GAAAAATATCTGGCAAAATCAAGGCTTGTATCTTCGAATGTTACCTTATGATGTCTGTCA	2520
Qy	2533		ATCGGTGACTGTGTGGGACTTATTGAGTGGTGCAGAAATCTCCACATTAATTCGCAATT	2592
Db	2521		ATCGGTGACTGTGTGGGACTTATCGAGTGGTGCAGAAATCTCCACATATAATGCAGATT	2580
Qy	2593		CAGTGCAAAAGGCGCCTTGAAGGTGCACCTGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581		CAGTGTAAGGAGGCCTGAAAGGTGCACCTGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653		CTCAAGACAAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641		CTCAAGACAAAGAACAAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713		TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAC	2772
Db	2701		TGTGCTGGATACTGTGTAGCTACCTTCATTTTGGGAATTGGAGATCGTCACAATAGTAAT	2760
Qy	2773		ATCATGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761		ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833		AAGAAGAAAAAATTGGTTATAAAACGAGAACGTGTGCCATTGTTTGTGACACAGGATTTC	2892
Db	2821		AAGAAGAAAAAATTGGTTATAAAACGAGAGCGCGTGCCGTTGTTTGTGACACAAGATTTC	2880
Qy	2893		TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACAAAGAGAATTGAGAGGTTT	2952
Db	2881		TTAATAGTGATTAGTAAAGAGGCCAAGAATGCACAAGACAAAGAGAATTGAGAGGTTT	2940
Qy	2953		CAGGAGATGTGTACAAAGGCTTATCTAGCTATTGCAGACGCTTCAATCTCTCATAAAT	3012
Db	2941		CAGGAGATGTGTGTACAAAGGCTTATCTAGCTATTTCGCGAGCATGCCAATCTCTCATAAAT	3000
Qy	3013		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001		CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073		TACATTGCAAGACCCCTAGCCTTAGATAAAAACAGCAAGAGGCTTTGGAGTATTTCATG	3132
Db	3061		TACATTGCAAGACCCCTAGCCTTAGATAAAAACAGCAAGAGGCTTTGGAGTATTTCATG	3120
Qy	3133		AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC	3192
Db	3121		AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTCCAC	3180
Qy	3193		ACAATTAACAGCATGCATTGAACCTGA	3219

Db 3181 ACAATTAAGCAGCATGCTTTGAACTGA 3207

RESULT 15

US-09-325-095-35

; Sequence 35, Application US/09325095

; Patent No. 7422849

; GENERAL INFORMATION:

; APPLICANT: Hiles, Ian Donald; Fry, Michael John; Dhand, Ritu
 ; APPLICANT: Bala; Waterfield, Michael Derek; Parker, Peter
 ; APPLICANT: Joseph; Otsu, Masayuki; Panayotou, George; Volinia,
 ; APPLICANT: Stefano; Gout, Ivan Tarasovitch
 ; TITLE OF INVENTION: POLYPEPTIDES HAVING KINASE ACTIVITY,
 ; TITLE OF INVENTION: THEIR PREPARATION AND USE
 ; NUMBER OF SEQUENCES: 50
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Felle & Lynch
 ; STREET: 805 Third Avenue
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10022

; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 ; COMPUTER: IBM PS/2
 ; OPERATING SYSTEM: PC-DOS
 ; SOFTWARE: Wordperfect

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/325,095

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 09/085,957

; FILING DATE:

; APPLICATION NUMBER: 08/780,872

; FILING DATE: 09-JAN-1997

; APPLICATION NUMBER: 08/162,081

; FILING DATE: February 7, 1994

; APPLICATION NUMBER: PCT/GB93/00761

; FILING DATE: 13 April 1993

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; INFORMATION FOR SEQ ID NO: 35:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3207 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-09-325-095-35

Query Match 87.9%; Score 3008.6; DB 8; Length 3207;
 Best Local Similarity 96.1%;
 Matches 3083; Conservative 0; Mismatches 124; Indels 0; Gaps 0;

Qy	13	ATGCCTCCAAGACCATCATCAGGTGAACCTGTGGGGCATCCACTTGATGCCCCCAAGAATC	72
Db	1	ATGCCTCCAAGACCATCATCAGGTGAACCTGTGGGGCATCCACTTGATGCCCCCAAGAATC	60
Qy	73	CTAGTGGAACTGTTTACTACCAAAATGGAATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	132
Db	61	CTAGTAGAATGTTTACTACCAAAATGGGATGATAGTGACTTTAGAATGCCTCCGTGAGGCT	120
Qy	133	ACATTAGTAGAAGTATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTTCATCAA	192
Db	121	ACGTTAATAACGATAAAGCATGAACATATTTAAAGAAGCAAGAAAAATACCCCTTCATCAA	180
Qy	193	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	252
Db	181	CTTCTTCAAGATGAATCTTCTTACATTTTCGTAAGTGTTACCCAAGAAGCAGAAAGGGAA	240
Qy	253	GAATTTTTTGTATGAACAAGACGACTTTGTGATCTTCGGCTTTTTCAACCATTTTTAAAA	312
Db	241	GAATTTTTTGTATGAACAAGACGACTTTGTGACCTTCGGCTTTTTCAACCATTTTTAAAA	300
Qy	313	GTAATTGAACCAAGTAGGCAACCGTGAAGAAAAGATCCTCAATCGAGAAATTTGGTTTTGCT	372

Ds	301	GTAATGCAACAGTAGGCAACCGTGAAGAAAAAGATCTCTCAATCGAGAAATTGGTTTGTCT	360
Qy	373	ATCGGCATGCCAGTGTGCCGAATTGATATGGTTAAAGATCCCTGAAGTACAGGACTTCCGA	432
Ds	361	ATCGGCATGCCAGTGTGTGAATTCGATATGGTTAAAGATCCAGAAGTACAGGACTTCCGA	420
Qy	433	AGAAATATTCTTAATGTTTGTAAAGAGCTGTGGATCTTAGGGATCTTAATTACACCTCAT	492
Ds	421	AGAAATATTCTCAATGTTTGTAAAGAGCTGTGGATCTTAGGGATCTTAATTACACCTCAT	480
Qy	493	AGTAGAGCAATGTATGCTATCCGCCACATGTAGAACTTCTACCAGAGCTGCCAAAGCAC	552
Ds	481	AGTAGAGCAATGTATGTTTATCTCCAAATGTAGAACTTCTACCAGAACTGCCAAAGCAC	540
Qy	553	ATATATAATAAATTGGATAGAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	612
Ds	541	ATATATAATAAATTGGATAAAGGCCAAATAATAGTGGTGATTGGGTAATAGTTTCTCCA	600
Qy	613	AATAATGACAAGCAGGAAGTAACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	672
Ds	601	AATAATGACAAACAGGAAGTAACTCTGAAAATCAACCATGACTGTGTGCCAGAACAGTA	660
Qy	673	ATTGCTGAAGCAATCAGGAAAAAACTAGAAGTATGTTGCTATCATCTGAACAATTAATA	732
Ds	661	ATTGCTGAAGCAATCAGGAAAAAACTCGAAGTATGTTGCTATCATCTGAACAATTAATA	720
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Ds	721	CTCTGTGTTTTAGAAATATCAGGGCAAGTATATTTAAAAAGTGTGGATGTGATGAATAC	780
Qy	793	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	852
Ds	781	TTCTAGAAAAATATCCTCTGAGTCAGTATAAGTATATAAGAAGCTGTATAATGCTTGGG	840
Qy	853	AGGATGCCCAATTTGAAGATGATGGCTAAAGAAAGCCCTTTATTTCAACTGCCAATGGAC	912
Ds	841	AGGATGCCCAATTTGATGCTGATGGCTAAAGAAAGCCCTTATTTCAACTGCCAATGGAC	900
Qy	913	TGTTTTACAATGCCATCTTAATCCAGACGCATTTCCACAGCTACACCATATATGAATGGA	972
Ds	901	TGTTTTACAATGCCATCATATTTCCAGACGCATTTCCACAGCTACGCCATATATGAATGGA	960
Qy	973	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGCACTCAGAATAAAAAATCTTTGT	1033
Ds	961	GAAACATCTACAAAAATCCCTTTGGGTTATAAATAGAGTATGCACTCAGAATAAAAAATCTTTGT	1021
Qy	1033	GCAACCTACGTGAATCTAAATATTCGAGACATTGACAAGATTATGTTTCGAACAGGTTATC	1093
Ds	1021	GCAACCTATGTGAATGTAATAATTCGAGACATTGACAAGATTATGTTTCGAACAGGTTATC	1081
Qy	1093	TACCATGGAGGAGAACCCTTATGTGACAATTGGAACACTCAAAGAGTACCTTGTTCCAAT	1153
Ds	1081	TACCATGGAGGAGAACCCTTATGTGATAATGGAACACTCAAAGAGTACCTTGTTCCAAT	1141
Qy	1153	CCCAGGTGGAATGAATGGCTGAATTATGATATATACATTCTCTGATCTTCTCGTGCTGCT	1213
Ds	1141	CCCAGGTGGAATGAATGGCTGAATTACGATATATACATTCTCTGATCTTCTCGTGCTGCT	1201
Qy	1213	CGACTTTGCCTTTCCATTGCTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1273
Ds	1201	CGACTTTGCCTTTCCATTGTTCTGTTAAAGGCCGAAAGGGTGCTAAAGAGGAACACTGT	1261
Qy	1273	CCATTGGCATGGGGAATATAAATCTGTTTGATTACACAGACACTCTAGTATCTGGAAAA	1333
Ds	1261	CCATTGGCTGGGGAATATAAATCTGTTTGATTACACAGTACTCTAGTATCTGGAAAA	1321
Qy	1333	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGATTAGAAGATTGCTGAACCCATTATGGT	1393
Ds	1321	ATGGCTTTGAATCTTTGGCCAGTACCTCATGGACTAGAAGATTGCTGAACCCATTATGGT	1381
Qy	1393	GTTACTGGATCAAAATCCAAATAAAGAAATCCATGCTTAGAGTTGGAGTTTGACTGGTTC	1453
Ds	1381	GTTACTGGATCAAAATCCAAATAAAGAAATCCATGTTTAGAGTTGGAGTTTGACTGGTTC	1441
Qy	1453	ACGAGTGTGGTAAAGTTCCCGATATGTCAAGTATTGAAGAGCATGCCAATTGGTCTGTA	1513
Ds	1441	ACGAGTGTGGTAAAGTTCCCGATATGTCAAGTATTGAAGAGCATGCCAATTGGTCTGTA	1501
Qy	1513	TCCCAGAGAAGCAGGATTAGCTATTCCACGCAGGACTAGTAACAGACTAGCTAGAGAC	1573
Ds	1501	TCCCGTGAAGCAGGATTAGTATTCCCATGCAGGACTAGTAACAGACTAGCTAGAGAC	1561

Qy	1573	AATGAATTAAAGGAAAAATGACAAAGAACAGCTCAAAGCAATTTCTACACGAGATCCTCTC	1632
Db	1561		1620
Qy	1633	TCTGAAATCACTGAGCAGGAGAAAGATT TCTATGGAGTACACAGACACTATTGTGTA TACT	1692
Db	1621	TCTGAAATCACTGAGCAGGAGAAAGATT TCTGTGGAGGCCACAGACACTATTGTGTA TACT	1680
Qy	1693	ATCCCCGAAAT TCTACCCAAAT TGCTTCTGTCTGT TAAATGGAAT TCTAGAGATGAA GTA	1752
Db	1681	ATCCCCGAAAT TCTACCCAAAT TGCTTCTGTCTGT TAAATGGAAT TCTAGAGATGAA GTA	1740
Qy	1753	GCCCAGATGTATTGCTTGGTAAAGATTGGCCTCCAATCAAACCTGAACAGGCTATGGAA	1812
Db	1741	GCTCAGATGTACTGCTTGGTAAAGATTGGCCTCCAATCAAGCCTGAACAGGCTATGGAG	1800
Qy	1813	CTTCTGGAGTGTAAAT TACCAGAT CCTATGGTT CGAGGTT TTGCTGTT CGGTGCT TGGAA	1872
Db	1801	CTTCTGGAGTGC AAT TACCAGAT CCTATGGTT CGAGGTT TTGCTGTT CGGTGCT TAGAA	1860
Qy	1873	AAATATT TAAACAGATGACAA ACTTTCTCAGTATTTAA TTCAGCTAGTACAGG TCTTAAAA	1932
Db	1861	AAATATT TAAACAGATGACAA ACTTTCTCAGTACCTAA TTCAGCTAGTACAGG TACTAAAA	1920
Qy	1933	TATGAACAATATTTGGATAA CTTGC TTTGTGAGATTTT TACTGAAGAAAGCATTGACTAAT	1992
Db	1921	TATGAACAGTATTTGGATAA CCTGCTTGTGAGATTTT TACTCAAAAAGCGTTA CTAATAAT	1980
Qy	1993	CAAAGGATTGGGCAC TTTTTCTTTTGGCATT TAAAA TCTGAGATGCACA TAATAAACAGTT	2052
Db	1981	CAAAGGATCGGTCA CTTTTCTTTTGGCATT TAAAA TCTGAGATGCACA TAATAAACAGTT	2040
Qy	2053	AGCCAGAGGTTTGGCTGCTGCTTTTGGAGTCC TATTGTGCTGCATGTGGGATGTATTG AAG	2112
Db	2041	AGTCAGAGGTTTGGCTGCTTTTGGAGTCC TATTGCCGTGCATGTGGGATGTATCTG AAG	2100
Qy	2113	CACCTGAATAGGCAAGTCGAGGCAATGGAAAAGCTCATTAACTTA ACTGACATTCTC AAA	2172
Db	2101	CACCTTAATAGGCAAGTTGAGGCTATGGAAAAGCTCATTAACTT GACTGACATTCTC AAA	2160
Qy	2173	CAGGAGAGGAAGGATGAAACACAAAAGGTACAGATGAAGTTT TTAGTTGAGCAAA TGAGG	2232
Db	2161	CAAGAGAGAAGGATGAAACACAAAAGGTACAGATGAAGTTT TTAGTTGAGCAAA TGCGG	2220
Qy	2233	CGACCAGATTT CATGGATGCCCTACAGGGCTT GCTGTCTCCTCTAA ACCCCTGCTCATCAA	2292
Db	2221	CGACCAGATTT CATGGATGCTCTCCAGGGCTT TCTGTCTCCTCTAA ACCCCTGCTCATCAG	2280
Qy	2293	CTAGGAAACCTCAGGCTTAAAGAGTGTGCAATATATGCTTCT TGC AAAAAGGCCACTGTGG	2352
Db	2281	CTGGGAAATCTCAGGCTTGAAGAGTGTGCAATATATGCTTCT TGC AAAAAGGCCACTGTGG	2340
Qy	2353	TTGAATTTGGGAGAACCACGACATCATGT CAGAGTTACTGTGTT TCAGAA CAATAGAGATCATC	2412
Db	2341	TTGAATTTGGGAGAACCACGACATCATGT CAGAA TACTCTTTCAGAA CAATAGAGATCATC	2400
Qy	2413	TTTAAAAATGGGGATGATT TACGGCAAGATATGCTAA CACTTCAA AATTATTCGTATTATG	2472
Db	2401	TTTAAAAATGGGGATGATT TACGGCAAGATATGCTAA CCCTTCAGATTATTT CGCATTATG	2460
Qy	2473	GAAAAATATCTGGCAAAATCAAGGCTTTGATCTTCGAATGTTACCTT ATGGTTGTC TGCA	2532
Db	2461	GAAAAATATCTGGCAAAATCAAGGCTTTGATCTTCGAATGTTACCTT ATGGATGTC TGCA	2520
Qy	2533	ATCGGTGACTGTGTGGGACTTATTGAGGTGGTGC GAAATCTC ACACTATATATGCA AAAT	2592
Db	2521	ATCGGTGACTGTGTGGGACTTATCGAGGTGGTGA GAAATCTC ACACTATATATGCA GATT	2580
Qy	2593	CAGTGCAAAGGCGGCTTGAAGGTGCAC TGCAGTTCAACAGCCACACACTACATCAGTGG	2652
Db	2581	CAGTGTAAGAGGCGCTGAAGGTGCAC TGCAGTTTAAACAGCCACACACTCCATCAGTGG	2640
Qy	2653	CTCAAAGACAAGAACAAAGGAGAAATATATGATGCAGCCATTGACCTGTTTACACGTTCA	2712
Db	2641	CTCAAAGACAAGAACAAAGGGGAAATATATGATGCGGCCATCGATTGTTTACACGATCA	2700
Qy	2713	TGTGCTGGATACTGTGTAGCTACCTTCA TTTGGGAATTGGAGATCGTCACAATAGTAA C	2772
Db	2701	TGTGCTGGATATTGTGTTGCCACCTTCA TTTGGGAATTGGAGATCGTCACAATAGTAA T	2760

Qy	2773	ATCATGGTGAAGACGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2832
Db	2761	ATCATGGTTAAAGATGATGGACAACCTGTTTCATATAGATTTTGGACACTTTTGGATCAC	2820
Qy	2833	AAGAAGAAAAAATTTGGTTATAAACGAGAACGTGTGCCATTGTGTTTGACACAGGATTTC	2892
Db	2821	AAGAAGAAAAAATTTGGTTATAAACGAGAGCGCGTCCGTTGTGTTTGACACAGGATTTC	2880
Qy	2893	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTGAGAGGTTT	2952
Db	2881	TTAATAGTGATTAGTAAAGGAGCCCAAGAATGCACAAAGACAAGAGAATTGAGAGGTTT	2940
Qy	2953	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGACAGCATGCCAATCTCTTCATAAAT	3012
Db	2941	CAGGAGATGTGTTACAAGGCTTATCTAGCTATTTCGGCAGCATGCCAATCTCTTCATAAAT	3000
Qy	3013	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTACAATCTTTTGATGACATTGCA	3072
Db	3001	CTTTTCTCAATGATGCTTGGCTCTGGAATGCCAGAACTGCAATCTTTTGATGATATTGCA	3060
Qy	3073	TACATTGCAAGACCCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3132
Db	3061	TACATTGCAAGACCCCTAGCCTTAGATAAACTGAGCAAGAGGCTTTGGAGTATTTTCATG	3120
Qy	3133	AAACAAATGAATGATGCACATCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3192
Db	3121	AAACAAATGAATGATGCACACCATGGTGGCTGGACAACAAAAATGGATTGGATCTTCCAC	3180
Qy	3193	ACAATTAACAGCATGCATTGAACTGA	3219
Db	3181	ACAATTAAGCAGCATGCTTTGAACTGA	3207

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